INDEX TO VOLUME 15A
Author Index*

A

Abdul-Karim FW (*see* Nelson et al). 1990;15A:655-9
Abrahamsson S-O, Sollerman C, Lundborg G, Larsson J, Egund N. Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb. 1990;15A:457-60
Adams BD, Blair WF, Shurr DG. Schultz metacarpophalangeal arthroplasty: a long-term follow-up study. 1990;15A:641-5
——, Unsell RS, McLaughlin P. Niebauer trapeziometacarpal arthroplasty. 1990;15A:487-92
Alexander AH, Turner MA, Alexander CE, Lichtman DM. Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up. 1990;15A:401-7
Alexander CE (*see* Alexander et al). 1990;15A:401-7
Alpert BS (*see* Brody et al). 1990;15A:322-7
Amiel D (*see* Gelberman et al). 1990;15A:69-77
An KN (*see* Horii et al). 1990;15A:393-400
Anderson PA, Chanoski CE, Devan DL, McMahon BL, Whelan EP. Normative study of grip and wrist flexion strength employing a BTE Work Simulator. 1990;15A:420-5
Andrews CP (*see* Kitziger et al). 1990;15A:902-5
Anselmo MT (*see* Patel et al). 1990;15A:652-5
Apfelberg DB, Maser MR, Lash H, White DN. YAG laser resection of complicated hemangiomas of the hand and upper extremity. 1990;15A:765-73
Argenta LC (*see* Hamm et al). 1990;15A:980-6
Ashley RK (*see* Johanson et al). 1990;15A:587-94
Axelrod TS, McMurtry RY. Open reduction and internal fixation of comminuted, intraarticular fractures of the distal radius. 1990;15A:1-11
—— (*see* McMurtry et al). 1990;15A:224-31

B

Balmat P (*see* Tropet et al). 1990;15A:745-7
Barnes G (*see* Waters et al). 1990;15A:335-9
Bartosh RA, Saldana MJ. Intraarticular fractures of the distal radius: a cadaveric study to determine if ligamentotaxis restores radiopalmar tilt. 1990;15A:18-21
Bassini L (*see* Patel et al). 1990;15A:652-5
—— (*see* Patel et al). 1990;15A:776-81
Beauchene JG (*see* Feehan and Beauchene). 1990;15A:763-8
Bell MSG (*see* Guirguis and Bell). 1990;15A:516-9
Bell RS (*see* Richards et al). 1990;15A:885-7
Bellman H (*see* Waters et al). 1990;15A:335-9
Belsole RJ. Reflex sympathetic dystrophy: "gate" closed by lightning. 1990;15A:523 (Letter)
Bennett JB (*see* Clough et al). 1990;15A:706-11
Berger RA, Landsmeer JMF. The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints. 1990;15A:847-54
Bernstein DA (*see* Jablon et al). 1990;15A:507-9
Berrettoni BA, Seitz WH Jr. Mycotic aneurysm in a digital artery: case report and literature review. 1990;15A:305-8
Biondi J (*see* Wood and Biondi). 1990;15A:431-8
Birchard D, Pichora D. Experimental corrective scaphoid osteotomy for scaphoid malunion with abnormal wrist mechanics. 1990;15A:863-8
Bishop AT (*see* Garcia-Elias et al). 1990;15A:531-40
—— (*see* Horii et al). 1990;15A:393-400
Blair WF. The 1988 Bunnell Traveling Fellow Report. 1990;15A:665-8
—— (*see* Adams et al). 1990;15A:641-5
—— (*see* Newport et al). 1990;15A:961-6
—— (*see* Steyers et al). 1990;15A:681-9
Bohn WW (*see* Figgie et al). 1990;15A:210-6
Bora FW Jr. Readership survey. 1990;15A:383 (Editorial)
Botte MJ, Cohen MS, Lavernia CJ, von Schroeder HP, Gellman H, Zinberg EM. The dorsal branch of the ulnar nerve: an anatomic study. 1990;15A:603-7
—— (*see* Lieber et al). 1990;15A:244-50
—— (*see* von Schroeder et al). 1990;15A:595-602
Bottke CA (*see* Rayhack and Bottke). 1990;15A:370-3
Boulas HJ, Milek MA. Ulnar shortening for tears of the triangular fibrocartilaginous complex. 1990;15A:415-20
—— (*see* Milek and Boulas). 1990;15A:740-4
Bour CJ (*see* Trumble et al). 1990;15A:384-92
Brand JC (*see* Jasan et al). 1990;15A:888-90
Breihan JH (*see* Sarrafian and Breihan). 1990;15A:134-9
Brody GA, Buncke HJ, Alpert BS, Hing DN. Serratus anterior muscle transplantation for treatment of soft tissue defects in the hand. 1990;15A:322-7
——, Hentz VR. Cloward technique for obtaining iliac crest bone graft in hand surgery. 1990;15A:181-3
Broudy AS (*see* Imbriglia et al). 1990;15A:426-30
Brown R (*see* Saldana et al). 1990;15A:309-15
Brumfield RH Jr, Kuschner SH, Gellman H, Liles DN, Van Winckle G. Results of dorsal wrist synovectomies in the rheumatoid hand. 1990;15A:733-5
—— (*see* Hume et al). 1990;15A:240-3
Bruno A (*see* Shaw et al). 1990;15A:712-20
Bryan DJ (*see* Rothkopf et al). 1990;15A:891-7
Buckingham SC (*see* Skahen et al). 1990;15A:552-7
Buebendorf ND (*see* Sanger et al). 1990;15A:976-9
Buncke HJ (*see* Brody et al). 1990;15A:322-7
—— (*see* Whitney et al). 1990;15A:328-34
Burger RS (*see* Floyd et al). 1990;15A:364-6
Burgess RC. Anatomic variations of the midcarpal joint. 1990;15A:129-31
Burton RI (*see* Pellegrini and Burton). 1990;15A:194-209

C

Carey LA, Weiss A-PC, Weiland AJ. Quantifying the effect of ischemia on epiphyseal growth in an extremity replant model. 1990;15A:625-30
Carlson G (*see* Leslie et al). 1990;15A:547-51
Carroll C IV (*see* Kleinman and Carroll). 1990;15A:408-14
Carter JR (*see* Nelson et al). 1990;15A:655-9
Cassel J. A technique to encourage postoperative hand elevation. 1990;15A:522
Cermak MB (*see* Labosky et al). 1990;15A:294-301
Ceruso M (*see* Lauri et al). 1990;15A:106-9

*January-February, pp. 1-190; March-April, pp. 191-382; May-June, pp. 383-530; July-August, pp. 531-680; September-October, pp. 681-844; November-December, pp. 845-1042.

Chai SH (*see* Steyers et al). 1990;15A:681-9
Chan A (*see* Hung et al). 1990;15A:251-7
Chang J (*see* Hung et al). 1990;15A:251-7
Chanoski CE (*see* Anderson et al). 1990;15A:420-5
Chao EYS (*see* Horii et al). 1990;15A:393-400
Chernofsky MA, Sauer PF. Temporary ectopic implantation. 1990;15A:910-4
Cherry K (*see* Meade et al). 1990;15A:855-62
Chiu DTW. Transthecal digital block: flexor tendon sheath used for anesthetic infusion. 1990;15A:471-3
Chiu KH (*see* Leung et al). 1990;15A:11-7
Chow SP, Stephens MM, Ngai WK, So YC, Pun WK, Chu M, Crosby C. A splint for controlled active motion after flexor tendon repair: design, mechanical testing, and preliminary clinical results. 1990;15A:645-51
—— (*see* So et al). 1990;15A:258-64
Christensen C (*see* Jensen and Christensen). 1990;15A:285-7
Chu M (*see* Chow et al). 1990;15A:645-51
Chun S, Wicks BP, Meyerdierks E, Werner F, Mosher JF Jr. Two modifications for insertion of the Herbert screw in the fractured scaphoid. 1990;15A:669-71
Clough DA, Crouch CC, Bennett JB. Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization. 1990;15A:706-11
Coffey E (*see* Lane et al). 1990;15A:751-4
Cohen MS (*see* Botte et al). 1990;15A:603-7
Coleman CR (*see* DiBenedetto et al). 1990;15A:1009-10
Conners JJ (*see* Crick et al). 1990;15A:460-3
Conyers DJ. Scapholunate interosseous reconstruction and imbrication of palmar ligaments. 1990;15A:690-700
Cook FW, Jakab E, Pollock MA. Local neurovascular island flap. 1990;15A:798-802
Cooney WP (*see* Garcia-Elias et al). 1990;15A:531-40
—— (*see* Horii et al). 1990;15A:393-400
Coville FA (*see* Schwartz et al). 1990;15A:132-3
Crick JC, Conners JJ, Franco RS. Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures. 1990;15A:460-3
Crosby C (*see* Chow et al). 1990;15A:645-51
—— (*see* So et al). 1990;15A:258-64
Crouch CC (*see* Clough et al). 1990;15A:706-11
Cuadros CL (*see* Rothkopf et al). 1990;15A:891-7

D

Dahlin LB (*see* Lundborg et al). 1990;15A:346-51
Dai S-Y, Lin D-X, Han Z, Zhoug S-Z. Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury. 1990;15A:36-7
de Beer JdeV (*see* Maloon et al). 1990;15A:474-7
DeFranzo AJ (*see* Hamm et al). 1990;15A:980-6
Dellon AL, Fine IT. A noninvasive technique for diagnosis of chronic compartment syndrome in the first dorsal interosseous muscle. 1990;15A:1008-9
deMente SH (*see* Kline et al). 1990;15A:98-101
de Moura W (*see* Strauch and de Moura). 1990;15A:148-54
Devan DL (*see* Anderson et al). 1990;15A:420-5
Devine CA (*see* Grunert et al). 1990;15A:615-8
DiBenedetto MR, Lubbers LM, Coleman CR. A standardized measurement of ulnar carpal translocation. 1990;15A:1009-10
Dick HM (*see* Seitz et al). 1990;15A:288-93
Dobyns JH (*see* Garcia-Elias et al). 1990;15A:531-40
Dodds GA III, Hale D, Jackson WT. Incidence of anatomic variants in Guyon's canal. 1990;15A:352-5
Doman AN, Marcus NW. Congenital bipartite scaphoid. 1990;15A:869-73
Doyle JR. Anatomy and function of the palmar aponeurosis pulley. 1990;15A:78-82
Dunlap J, McCarthy JA, Joyce ME, Manske PR. Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates. 1990;15A:57-63
—— (*see* Peterson et al). 1990;15A:48-56

E

Ebraheim NA (*see* Skie et al). 1990;15A:934-9
Eglseder WA, Russell JM. Type IV flexor digitorum profundus avulsion. 1990;15A:735-9
Egund N (*see* Abrahamsson et al). 1990;15A:457-60
Ericson WB Jr (*see* Leslie et al). 1990;15A:88-91
Essman JA, Reilly TJ, Forshew FC. Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis. 1990;15A:672-4
Euler E, Wilhelm K, Permanetter W, Kreusser Th. Ewing's sarcoma of the hand: localization and treatment. 1990;15A:659-62

F

Fazeli BM (*see* Lieber et al). 1990;15A:244-50
Feehan LM, Beauchene JG. Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization. 1990;15A:63-8
Ferlic DC, Ries MD. Epineural ganglion of the ulnar nerve at the elbow. 1990;15A:996-8
Fernandez DL. Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions. 1990;15A:140-7
—— (*see* Geissler et al). 1990;15A:44-7
Figgie HE III (*see* Figgie et al). 1990;15A:217-23
Figgie MP, Inglis AE, Sobel M, Bohn WW, Fisher DA. Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb. 1990;15A:210-6
——, Ranawat CS, Inglis AE, Sobel M, Figgie HE III. Trispherical total wrist arthroplasty in rheumatoid arthritis. 1990;15A:217-23
Fine IT (*see* Dellon and Fine). 1990;15A:1008-9
Fisher DA (*see* Figgie et al). 1990;15A:210-6
Floyd T, Burger RS, Sciaroni CA. Bilateral palmaris profundus causing bilateral carpal tunnel syndrome. 1990;15A:364-6
Forshew FC (*see* Essman et al). 1990;15A:672-4
Fowler JL, Wicks MH. Osteochondritis dissecans of the lunate. 1990;15A:571-2
Franco RS (*see* Crick et al). 1990;15A:460-3
Freiberg A (*see* Swanson et al). 1990;15A:166-71
Fukui A, Maeda M, Inada Y, Tamai S, Sempuku T. Arteriovenous shunt in digit replantation. 1990;15A:160-5
—— (*see* Inada et al). 1990;15A:921-4

G

Garcia-Elias M, Bishop AT, Dobyns JH, Cooney WP, Linscheid RL. Transcarpal carpometacarpal dislocations, excluding the thumb. 1990;15A:531-40
—— (*see* Horii et al). 1990;15A:393-400
Geissler WB, Fernandez DL, Graca R. Anterior interosseous nerve palsy complicating a forearm fracture in a child. 1990;15A:44-7
Gelberman RH, Woo SL-Y, Amiel D, Horibe S, Lee D. Influences of flexor sheath continuity and early motion on tendon healing in dogs. 1990;15A:69-77
Gellman H (*see* Botte et al). 1990;15A:603-7
—— (*see* Brumfield et al). 1990;15A:733-5
—— (*see* Hume et al). 1990;15A:240-3
—— (*see* Orcutt et al). 1990;15A:940-4
—— (*see* von Schroeder et al). 1990;15A:595-602

Gersten LM (*see* Keenan et al). 1990;15A:340-6
Gilula LA (*see* Pin et al). 1990;15A:110-9
Glisson RR (*see* Trumble et al). 1990;15A:384-92
Gonzalez M (*see* Kanaya et al). 1990;15A:30-6
Gonzalez MH, Hall RF Jr. Thrombosis of the vena comitantes of the ulnar artery. 1990;15A:773-6
Gorosh JE (*see* Singer and Gorosh). 1990;15A:172-5
Gould ES (*see* Lane et al). 1990;15A:751-4
Gould JS (*see* Ostrowski et al). 1990;15A:874-8
Graca R (*see* Geissler et al). 1990;15A:44-7
Graham TJ, Stern PJ, True MS. Classification and treatment of post-burn metacarpophalangeal joint extension contractures in children. 1990;15A:450-6
Green D (*see* Grunert et al). 1990;15A:615-8
Green DP. Care with care. 1990;15A:191-3
Green SM (*see* Schwartz et al). 1990;15A:132-3
Grenga TE. Intratendinous fibroma of flexor tendon. 1990;15A:92-3
Gross K (*see* Stagnone et al). 1990;15A:987-90
Grunert BK, Devine CA, Sanger JR, Matloub HS, Green D. Thermal self-regulation for pain control in reflex sympathetic dystrophy syndrome. 1990;15A:615-8
——, Matloub HS, Sanger JR, Yousif NJ. Treatment of posttraumatic stress disorder after work-related hand trauma. 1990;15A:511-5
Gubernick I (*see* Waters et al). 1990;15A:335-9
Guirguis EM, Bell MSG. The wrist tourniquet: an alternative technique in hand surgery. 1990;15A:516-9

H

Hagan HJ, Hastings H II. Use of a step-cut osteotomy for immediate posttraumatic proximal interphalangeal joint fusion. 1990;15A:374-6
Hagberg WC (*see* Imbriglia et al). 1990;15A:426-30
Haider TT (*see* Keenan et al). 1990;15A:607-14
Hale D (*see* Dodds et al). 1990;15A:352-5
Hall RF Jr (*see* Gonzalez and Hall). 1990;15A:773-6
Hallock GG. Preliminary assessment of laser Doppler flowmetry for determining timing of division of the cross-finger flap. 1990;15A:898-901
Hamm JC, DeFranzo AJ, Argenta LC, White W. Keratoacanthoma necessitating metacarpal amputation. 1990;15A:980-6
Han Z (*see* Dai et al). 1990;15A:36-7
Hansson H-A (*see* Lundborg et al). 1990;15A:346-51
Harvey FJ, Harvey PM, Horsley MW. De Quervain's disease: surgical or nonsurgical treatment. 1990;15A:83-7
——, Negrine J. Synovial chondromatosis in the distal interphalangeal joint. 1990;15A:102-5
Harvey PM (*see* Harvey et al). 1990;15A:83-7
Hastings H II (*see* Hagan and Hastings). 1990;15A:374-6
Heithoff SJ, Millender LH, Nalebuff EA, Petruska AJ Jr. Medial epicondylectomy for the treatment of ulnar nerve compression at the elbow. 1990;15A:22-9
Helen R (*see* Johanson et al). 1990;15A:587-94
Henshall AL (*see* Rogers et al). 1990;15A:990-5
Hentz VR (*see* Brody and Hentz). 1990;15A:181-3
Heymans M, Jardon-Jeghers C, Vanwijck R. Hand metastases from urothelial tumor. 1990;15A:509-11
Hing DN (*see* Brody et al). 1990;15A:322-7
Hixson ML, Stewart C. Microvascular anatomy of the radioscapholunate ligament of the wrist. 1990;15A:279-82
Hobbs RA, Magnussen PA, Tonkin MA. Palmar cutaneous branch of the median nerve. 1990;15A:38-43
Hokanson JA (*see* Pogue et al). 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
Hood JM (*see* Suprock et al). 1990;15A:761-4
Horibe S (*see* Gelberman et al). 1990;15A:69-77
Horii E, Garcia-Elias M, An KN, Bishop AT, Cooney WP, Linscheid RL, Chao EYS. Effect on force transmission across the carpus in procedures used to treat Kienböck's disease. 1990;15A:393-400
—— (*see* Miura et al). 1990;15A:439-44
—— (*see* Miura et al). 1990;15A:445-9
Horowitz A (*see* Jablon et al). 1990;15A:507-9
Horsley MW (*see* Harvey et al). 1990;15A:83-7
Horwitz DS (*see* Peterson et al). 1990;15A:48-56
House JH (*see* Jasan et al). 1990;15A:888-90
Howard MW (*see* Orcutt et al). 1990;15A:940-4
Hume MC, Gellman H, McKellop H, Brumfield RH Jr. Functional range of motion of the joints of the hand. 1990;15A:240-3
Hung LK, Chan A, Chang J, Tsang A, Leung PC. Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries. 1990;15A:251-7
—— (*see* Leung and Hung). 1990;15A:637-40
—— (*see* Leung and Hung). 1990;15A:925-8
—— (*see* Leung et al). 1990;15A:11-7
—— (*see* Rath et al). 1990;15A:630-6

I

Imbriglia JE, Broudy AS, Hagberg WC, McKernan D. Proximal row carpectomy: clinical evaluation. 1990;15A:426-30
Inada M (*see* Inada et al). 1990;15A:921-4
Inada Y, Fukui A, Maeda M, Tamai S, Inada M. Reconstruction of the triangular fibrocartilage complex after surgery for treatment of synovial osteochondromatosis of the distal radioulnar joint. 1990;15A:921-4
—— (*see* Fukui et al). 1990;15A:160-5
Inglis AE (*see* Figgie et al). 1990;15A:210-6
—— (*see* Figgie et al). 1990;15A:217-23
Innocenti M (*see* Lauri et al). 1990;15A:106-9
Inoue G, Maeda N. Irreducible palmar dislocation of the proximal interphalangeal joint of the finger. 1990;15A:301-4
Irving J (*see* Trumble and Irving). 1990;15A:879-84
Ishii S (*see* Tang et al). 1990;15A:788-92
Ishizuki M. Traumatic and spontaneous dislocation of extensor tendon of the long finger. 1990;15A:967-72

J

Jablon M, Horowitz A, Bernstein DA. Magnetic resonance imaging of a glomus tumor of the fingertip. 1990;15A:507-9
Jackson WT (*see* Dodds et al). 1990;15A:352-5
—— (*see* Skie et al). 1990;15A:934-9
Jakab E (*see* Cook et al). 1990;15A:798-802
Jardon-Jeghers C (*see* Heymans et al). 1990;15A:509-11
Jasan M, House JH, Brand JC. Bilateral unicameral bone cysts in the hamate bones. 1990;15A:888-90
Jenkins DK (*see* Pogue et al). 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
Jennings CD, Livingstone DP. Convex condylar arthroplasty of the basal joint of the thumb: failure under load. 1990;15A:573-81
Jensen BV, Christensen C. An unusual combination of simultaneous fracture of the tuberosity of the trapezium and the hook of the hamate. 1990;15A:285-7
Johanson ME, Skinner SR, Lamoreux LW, Saint. Helen R, Moran SA, Ashley RK. Phasic relationships of the extrinsic muscles of the normal hand. 1990;15A:587-94
Johnson RP. The evolution of carpal nomenclature: a short review. 1990;15A:834-8

Jonsson K. Nonunion of a fractured scaphoid tubercle. 1990;15A:283-5
Joyce ME (*see* Dunlap et al). 1990;15A:57-63
Jupiter J. "Extensor carpi ulnaris and flexor carpi ulnaris tenodeses of the unstable distal ulna". 1990;15A:523 (Letter)

K

Kaempffe F, Peimer CA. Distraction for wrist arthroscopy. 1990;15A:520-1
Kahn B (*see* Peterson et al). 1990;15A:48-56
Kanaya F, Gonzalez M, Park C-M, Kutz JE, Kleinert HE, Tsai T-M. Improvement in motor function after brachial plexus surgery. 1990;15A:30-6
Kanje M (*see* Lundborg et al). 1990;15A:346-51
Kaplan IB (*see* Martin et al). 1990;15A:155-9
Karev A, Stahl S. Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma. 1990;15A:94-7
Katz JN, Stirrat CR. A self-administered hand diagram for the diagnosis of carpal tunnel syndrome. 1990;15A:360-3
Keenan MAE, Haider TT, Stone LR. Dynamic electromyography to asseas elbow spasticity. 1990;15A:607-14
——, Tomas ES, Stone L, Gersten LM. Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity. 1990;15A:340-6
—— (*see* Orcutt et al). 1990;15A:940-4
Kinninmonth AWG. A complication of the buried suture. 1990;15A:959-60
Kitziger KJ, Sanders WE, Andrews CP. Acute pulmonary edema associated with use of low-molecular weight dextran for prevention of microvascular thromboprophylaxis. 1990;15A:902-5
Kleinert HE (*see* Kanaya et al). 1990;15A:30-6
—— (*see* Pessa et al). 1990;15A:466-70
Kleinert JM (*see* Martin et al). 1990;15A:155-9
—— (*see* McCabe and Kleinert). 1990;15A:784-8
Kleinman WB, Carroll C IV. Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications. 1990;15A:408-14
Kline SC, Moore JR, deMente SH. Glomus tumor originating within a digital nerve. 1990;15A:98-101
Kobus RJ, Turner RH. Wrist arthrodesis for treatment of rheumatoid arthritis . 1990;15A:541-6
Koman LA, Toby EB, Poehling GG. Congenital flexion deformities of the proximal interphalangeal joint in children: a subgroup of camptodactyly. 1990;15A:582-6
Kramer WG III (*see* Orcutt et al). 1990;15A:940-4
Kreusser Th (*see* Euler et al). 1990;15A:659-62
Kucan JO (*see* Stagnone et al). 1990;15A:987-90
Kuschner SH (*see* Brumfield et al). 1990;15A:733-5
Kutz JE (*see* Kanaya et al). 1990;15A:30-6

L

Labosky DA, Cermak MB, Waggy CA. Forearm fracture plates: to remove or not to remove. 1990;15A:294-301
Laforgia R, Specchiulli F, Marisni A. Dorsal dislocation of the fifth carpometacarpal joint. 1990;15A:463-5
Lamoreux LW (*see* Johanson et al). 1990;15A:587-94
Landsmeer JMF (*see* Berger and Landsmeer). 1990;15A:847-54
Lane LB, Gould ES, Stein PD, Coffey E. Unilateral osteonecrosis in a patient with bilateral os centrale carpi. 1990;15A:751-4
—— (*see* Newport et al). 1990;15A:748-50
Larsson J (*see* Abrahamsson et al). 1990;15A:457-60
Lash H (*see* Apfelberg et al). 1990;15A:765-73
Lauri G, Santucci M, Ceruso M, Innocenti M. Recurrent digital fibromatosis of childhood. 1990;15A:106-9
Lavernia CJ (*see* Botte et al). 1990;15A:603-7
Lee D (*see* Gelberman et al). 1990;15A:69-77
Lee H. Double loop locking suture: a technique of tendon repair for early active mobilization. Part I: evolution of technique and experimental study. 1990;15A:945-52
——. Double loop locking suture: a technique of tendon repair for early active mobilization. Part II: clinical experience. 1990;15A:953-8
Lesavoy MA (*see* Walker and Lesavoy). 1990;15A:484-6
Leslie BM, Carlson G, Ruby LK. Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision. 1990;15A:547-51
——, Ericson WB Jr, Morehead JR. Incidence of a septum within the first dorsal compartment of the wrist. 1990;15A:88-91
Leung KS, Shen WY, Tsang HK, Chiu KH, Leung PC, Hung LK. An effective treatment of comminuted fractures of the distal radius. 1990;15A:11-7
Leung PC, Hung LK. An effective method of reconstructing post-traumatic dorsal dislocated distal radioulnar joints. 1990;15A:925-8
——, ——. Use of pronator quadratus bone flap in bony reconstruction around the wrist. 1990;15A:637-40
—— (*see* Hung et al). 1990;15A:251-7
—— (*see* Leung et al). 1990;15A:11-7
—— (*see* Rath et al). 1990;15A:630-6
Levin LS (*see* Lourie et al). 1990;15A:367-9
Levinsohn EM (*see* Skahen et al). 1990;15A:552-7
Li Y (*see* Pessa et al). 1990;15A:466-70
Lichtman DM (*see* Alexander et al). 1990;15A:401-7
—— (*see* Saldana et al). 1990;15A:309-15
Lieber RL, Fazeli BM, Botte MJ. Architecture of selected wrist flexor and extensor muscles. 1990;15A:244-50
Liles DN (*see* Brumfield et al). 1990;15A:733-5
Lin D-X (*see* Dai et al). 1990;15A:36-7
Lineaweaver WC (*see* Whitney et al). 1990;15A:328-34
Linscheid RL (*see* Garcia-Elias et al). 1990;15A:531-40
—— (*see* Horii et al). 1990;15A:393-400
Lister GD (*see* Steyers et al). 1990;15A:681-9
Livingstone DP (*see* Jennings and Livingstone). 1990;15A:573-81
Logan SE (*see* Pin et al). 1990;15A:110-9
Louis DS. Ramazzini and occupational diseases. 1990;15A:663-4
Lourie GM, Levin LS, Toby B, Urbaniak J. Distal rupture of the palmaris longus tendon and fascia as a cause of acute carpal tunnel syndrome. 1990;15A:367-9
Lovallo JL (*see* Walker et al). 1990;15A:176-80
Lubahn JD (*see* Suprock et al). 1990;15A:761-4
Lubbers LM (*see* DiBenedetto et al). 1990;15A:1009-10
Luk KDK (*see* So et al). 1990;15A:258-64
Lundborg G, Dahlin LB, Hansson H-A, Kanje M, Necking L-E. Vibration exposure and peripheral nerve fiber damage. 1990;15A:346-51
—— (*see* Abrahamsson et al). 1990;15A:457-60

M

Maeda M (*see* Fukui et al). 1990;15A:160-5
—— (*see* Inada et al). 1990;15A:921-4
Maeda N (*see* Inoue and Maeda). 1990;15A:301-4
Magnussen PA (*see* Hobbs et al). 1990;15A:38-43
Makley JT (*see* Nelson et al). 1990;15A:655-9
Maloon S, de Beer JdeV, Opitz M, Singer M. Acute flexor tendon sheath infections. 1990;15A:474-7
Mann JL (*see* Stagnone et al). 1990;15A:987-90

Manske PR (*see* Dunlap et al). 1990;15A:57-63
—— (*see* Peterson et al). 1990;15A:48-56
Marcus NW (*see* Doman and Marcus). 1990;15A:869-73
Mariani A (*see* Laforgia et al). 1990;15A:463-5
Marks P (*see* McMurtry et al). 1990;15A:224-31
Martin DL, Kaplan IB, Kleinert JM. Use of a reverse cross-finger flap as a vascularized vein graft carrier in ring avulsion injuries. 1990;15A:155-9
Masear VR (*see* Witczak et al). 1990;15A:265-8
Maser MR (*see* Apfelberg et al). 1990;15A:765-73
Matloub HS (*see* Grunert et al). 1990;15A:511-5
—— (*see* Grunert et al). 1990;15A:615-8
—— (*see* Sanger et al). 1990;15A:976-9
May JW Jr (*see* Rothkopf et al). 1990;15A:891-7
McCabe SJ, Kleinert JM. The nerve of Henlé. 1990;15A:784-8
McCarroll R (*see* Saldana et al). 1990;15A:309-15
McCarthy JA (*see* Dunlap et al). 1990;15A:57-63
McKellop H (*see* Hume et al). 1990;15A:240-3
McKernan D (*see* Imbriglia et al). 1990;15A:426-30
McLaughlin P (*see* Adams et al). 1990;15A:487-92
McMahon BL (*see* Anderson et al). 1990;15A:420-5
McMurtry RY, Paley D, Marks P, Axelrod T. A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid. 1990;15A:224-31
—— (*see* Axelrod and McMurtry). 1990;15A:1-11
Meade TD, Schneider LH, Cherry K. Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study. 1990;15A:855-62
Meals RA (*see* Walker and Meals). 1990;15A:781-4
Menez D (*see* Tropet et al). 1990;15A:745-7
Meyer RD (*see* Witczak et al). 1990;15A:265-8
Meyer S (*see* North and Meyer). 1990;15A:915-20
Meyerdierks E (*see* Chun et al). 1990;15A:669-71
Milek MA, Boulas HJ. Flexor tendon ruptures secondary to hamate hook fractures. 1990;15A:740-4
—— (*see* Boulas and Milek). 1990;15A:415-20
Millender LH (*see* Heithoff et al). 1990;15A:22-9
—— (*see* Miller-Breslow et al). 1990;15A:493-6
—— (*see* Terrono et al). 1990;15A:999-1003
Miller ME (*see* Ostrowski et al). 1990;15A:874-8
Miller-Breslow A, Terrono A, Millender LH. Nonoperative treatment of anterior interosseous nerve paralysis. 1990;15A:493-6
Miura T, Nakamura R. Congenital onychodysplasia of the index fingers. 1990;15A:793-7
——, ——, Horii E. Congenital hand anomalies in Japan: a family study. 1990;15A:439-44
——, ——, ——, Sano H. Three cases of syndactyly, polydactyly, and hypoplastic triphalangeal thumb: (Haas's malformation). 1990;15A:445-9
—— (*see* Sato and Miura). 1990;15A:1004-7
Moore JR (*see* Kline et al). 1990;15A:98-101
Moran SA (*see* Johanson et al). 1990;15A:587-94
Morehead JR (*see* Leslie et al). 1990;15A:88-91
Mosher JF Jr (*see* Chun et al). 1990;15A:669-71

N

Naito T (*see* Tang et al). 1990;15A:788-92
Nakamura R (*see* Miura and Nakamura). 1990;15A:793-7
—— (*see* Miura et al). 1990;15A:439-44
—— (*see* Miura et al). 1990;15A:445-9
Nalebuff EA (*see* Heithoff et al). 1990;15A:22-9
—— (*see* Terrono et al). 1990;15A:999-1003
Nashad R (*see* Patel et al). 1990;15A:652-5
Necking L-E (*see* Lundborg et al). 1990;15A:346-51
Negrine J (*see* Harvey and Negrine). 1990;15A:102-5
Nelson DL, Abdul-Karim FW, Carter JR, Makley JT. Chondrosarcoma of small bones of the hand arising from enchondroma. 1990;15A:655-9
Newport ML, Blair WF, Steyers CM Jr. Long-term results of extensor tendon repair. 1990;15A:961-6
——, Lane LB, Stuchin SA. Treatment of trigger finger by steroid injection. 1990;15A:748-50
Ng C (*see* So et al). 1990;15A:258-64
Ngai WK (*see* Chow et al). 1990;15A:645-51
Niebauer JJ (*see* Saldana et al). 1990;15A:309-15
North ER, Meyer S. Wrist injuries: correlation of clinical and arthroscopic findings. 1990;15A:915-20
Nowak M (*see* Pin et al). 1990;15A:110-9
Nugent K (*see* Whitney et al). 1990;15A:328-34

O

O'Brien BMcC. Reconstructive microsurgery of the upper extremity. 1990;15A:316-21
O'Hara JJ, Stone JH. An intratendinous epidermoid cyst after trauma. 1990;15A:477-9
Omer GE Jr. Adrian E. Flatt, MD: an editor for excellence. 1990;15A:845-6
Opitz M (*see* Maloon et al). 1990;15A:474-7
Orcutt SA, Kramer WG III, Howard MW, Keenan MAE, Stone LR, Waters RL, Gellman H. Carpal tunnel syndrome secondary to wrist and finger flexor spasticity. 1990;15A:940-4
Ostrowski DM, Miller ME, Gould JS. Dorsal dislocation of the trapezoid. 1990;15A:874-8
Owens W (*see* Seradge et al). 1990;15A:236-9

P

Paitich CB (*see* Richards et al). 1990;15A:885-7
Paley D (*see* McMurtry et al). 1990;15A:224-31
Palmer AK. Triquetral-lunate arthritis. 1990;15A:523 (Letter)
—— (*see* Skahen et al). 1990;15A:552-7
Park C-M (*see* Kanaya et al). 1990;15A:30-6
Pasteels JL (*see* Schuind et al). 1990;15A:497-503
Patel MR, Bassini L, Nashad R, Anselmo MT. Barber's interdigital pilonidal sinus of the hand: a foreign body hair granuloma. 1990;15A:652-5
——, Pearlman HS, Bassini L, Ravich S. Fractures of the sesamoid bones of the thumb . 1990;15A:776-81
Patterson RM (*see* Pogue et al). 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
—— (*see* Viegas et al). 1990;15A:564-71
—— (*see* Viegas et al). 1990;15A:728-32
Paul EM (*see* Shaw et al). 1990;15A:712-20
Pearlman HS (*see* Patel et al). 1990;15A:776-81
Peimer CA (*see* Kaempffe and Peimer). 1990;15A:520-1
Pellegrini VD Jr, Burton RI. Osteoarthritis of the proximal interphalangeal joint of the hand: arthroplasty or fusion? 1990;15A:194-209
Pem R (*see* Tropet et al). 1990;15A:745-7
Permanetter W (*see* Euler et al). 1990;15A:659-62
Pessa JE, Tsai T-M, Li Y, Kleinert HE. The repair of nail deformities with the nonvascularized nail bed graft: indications and results. 1990;15A:466-70
Peterson PD (*see* Pogue et al). 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
—— (*see* Viegas et al). 1990;15A:564-71
—— (*see* Viegas et al). 1990;15A:728-32

Peterson WW, Manske PR, Dunlap J, Horwitz DS, Kahn B. Effect of various methods of restoring flexor sheath integrity on the formation of adhesions after tendon injury. 1990;15A:48-56
Petruska AJ Jr (*see* Heithoff et al). 1990;15A:22-9
Pichora D (*see* Birchard and Pichora). 1990;15A:863-8
Pin PG, Nowak M, Logan SE, Young VL, Gilula LA, Weeks PM. Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management. 1990;15A:110-9
Poehling GG (*see* Koman et al). 1990;15A:582-6
Pogue DJ, Viegas SF, Patterson RM, Peterson PD, Jenkins DK, Sweo TD, Hokanson JA. Effects of distal radius fracture malunion on wrist joint mechanics. 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
—— (*see* Viegas et al). 1990;15A:728-32
Pollock MA (*see* Cook et al). 1990;15A:798-802
Pun WK (*see* Chow et al). 1990;15A:645-51
—— (*see* So et al). 1990;15A:258-64
Putnam MD (*see* Seitz et al). 1990;15A:288-93

R

Ranawat CS (*see* Figgie et al). 1990;15A:217-23
Raskind JR (*see* Szabo et al). 1990;15A:929-33
Rath S, Hung LK, Leung PC. Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply. 1990;15A:630-6
Ravich S (*see* Patel et al). 1990;15A:776-81
Rayan GM. Distal stenosing tenosynovitis. 1990;15A:973-5
Rayhack JM, Bottke CA. Intraosseous compression wiring of displaced articular condylar fractures. 1990;15A:370-3
Reilly TJ (*see* Essman et al). 1990;15A:672-4
Richards RR, Paitich CB, Bell RS. Internal fixation of a capitate fracture with Herbert screws. 1990;15A:885-7
Ries MD (*see* Ferlic and Ries). 1990;15A:996-8
Rogers GD, Henshall AL, Sach RP, Wallis KA. Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist. 1990;15A:990-5
Rogers WD, Watson HK. Degenerative arthritis at the triscaphe joint. 1990;15A:232-5
Rosenthal EA. Proceedings of the American Society for Surgery of the Hand. 1990;15A:806-33
Roth JH. Proceedings of the Canadian Society for Surgery of the Hand (MANUS Canada). 1990;15A:803-5
Rothkopf DM, Bryan DJ, Cuadros CL, May JW Jr. Surgical management of ulnar artery aneurysms. 1990;15A:891-7
Ruby LK (*see* Leslie et al). 1990;15A:547-51
Russell JM (*see* Eglseder and Russell). 1990;15A:735-9
Ruwe PA (*see* Trumble et al). 1990;15A:504-6

S

Sach RP (*see* Rogers et al). 1990;15A:990-5
Sadove RC. Traumatic infected pseudoaneurysm of the hand. 1990;15A:906-9
Saldana MJ, Niebauer JJ, Brown R, McCarroll R, Lichtman DM. Microsurgical revascularization of ischemic rat femoral heads. 1990;15A:309-15
—— (*see* Bartosh and Saldana). 1990;15A:18-21
Salter DR (*see* Swanson et al). 1990;15A:166-71
Sanders WE (*see* Kitziger et al). 1990;15A:902-5
Sanger JR, Buebendorf ND, Matloub HS, Yousif NJ. Proximal phalangeal fracture after tendon pulley reconstruction. 1990;15A:976-9
—— (*see* Grunert et al). 1990;15A:511-5
—— (*see* Grunert et al). 1990;15A:615-8
Sano H (*see* Miura et al). 1990;15A:445-9
Santucci M (*see* Lauri et al). 1990;15A:106-9
Sarrafian SK, Breihan JH. Palmar dislocation of scaphoid and lunate as a unit. 1990;15A:134-9
Sato K, Miura T. Hypoplasia of the humeral trochlea. 1990;15A:1004-7
Sauer PF (*see* Chernofsky and Sauer). 1990;15A:910-4
Schneider LH (*see* Meade et al). 1990;15A:855-62
Schuind F, Ventura M, Pasteels JL. Idiopathic carpal tunnel syndrome: histologic study of flexor tendon synovium. 1990;15A:497-503
Schwartz MG, Green SM, Coville FA. Dorsal dislocation of the lunate with multiple extensor tendon ruptures. 1990;15A:132-3
Sciaroni CA (*see* Floyd et al). 1990;15A:364-6
Seitz WH Jr, Putnam MD, Dick HM. Limited open surgical approach for external fixation of distal radius fractures. 1990;15A:288-93
—— (*see* Berrettoni and Seitz). 1990;15A:305-8
Sempuku T (*see* Fukui et al). 1990;15A:160-5
Sennwald GR. Fasciectomy for treatment of Dupuytren's disease and early complications. 1990;15A:755-61
Seradge E (*see* Seradge and Seradge). 1990;15A:356-9
—— (*see* Seradge et al). 1990;15A:236-9
Seradge H, Seradge E. Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel. 1990;15A:356-9
——, Sterbank PT, Seradge E, Owens W. Segmental motion of the proximal carpal row: their global effect on the wrist motion. 1990;15A:236-9
Shaw JA, Bruno A, Paul EM. Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation. 1990;15A:712-20
Shen WY (*see* Leung et al). 1990;15A:11-7
Shurr DG (*see* Adams et al). 1990;15A:641-5
Siemionow M. Histopathology of microarterial anastomoses: end-to-end versus end-in-end (sleeve) technique. 1990;15A:619-25
Simmons BP (*see* Walker et al). 1990;15A:176-80
Singer M (*see* Maloon et al). 1990;15A:474-7
Singer RM, Gorosh JE. Purpura fulminans. 1990;15A:172-5
Skahen JR III, Palmer AK, Levinsohn EM, Buckingham SC, Szeverenyi NM. Magnetic resonance imaging of the triangular fibrocartilage complex. 1990;15A:552-7
Skie M, Zeiss J, Ebraheim NA, Jackson WT. Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging. 1990;15A:934-9
Skinner SR (*see* Johanson et al). 1990;15A:587-94
Smith RJ (*see* Trumble et al). 1990;15A:384-92
So YC, Chow SP, Pun WK, Luk KDK, Crosby C, Ng C. Evaluation of results in flexor tendon repair: a critical analysis of five methods in ninety-five digits. 1990;15A:258-64
—— (*see* Chow et al). 1990;15A:645-51
Sobel M (*see* Figgie et al). 1990;15A:210-6
—— (*see* Figgie et al). 1990;15A:217-23
Sollerman C (*see* Abrahamsson et al). 1990;15A:457-60
Specchiulli F (*see* Laforgia et al). 1990;15A:463-5
Saint (*see* Johanson et al). 1990;15A:587-94
Stagnone GJ, Kucan JO, Gross K, Mann JL, Zook EG. Malignant acrospiroma. 1990;15A:987-90
Stahl S (*see* Karev and Stahl). 1990;15A:94-7
Stark LZ (*see* Waters et al). 1990;15A:335-9
Stein PD (*see* Lane et al). 1990;15A:751-4
Stephens MM (*see* Chow et al). 1990;15A:645-51
Sterbank PT (*see* Seradge et al). 1990;15A:236-9
Stern PJ (*see* Graham et al). 1990;15A:450-6
Stewart C (*see* Hixson and Stewart). 1990;15A:279-82
Steyers CM, Chai SH, Blair WF, Lister GD. A role delineation study of hand surgery. 1990;15A:681-9
Steyers CM Jr (*see* Newport et al). 1990;15A:961-6

Stirrat CR (*see* Katz and Stirrat). 1990;15A:360-3
Stone JH (*see* O'Hara and Stone). 1990;15A:477-9
Stone LR (*see* Keenan et al). 1990;15A:340-6
—— (*see* Keenan et al). 1990;15A:607-14
—— (*see* Orcutt et al). 1990;15A:940-4
Strauch B, de Moura W. Arterial system of the fingers. 1990;15A:148-54
Stuchin SA (*see* Newport et al). 1990;15A:748-50
Suprock MD, Hood JM, Lubahn JD. Role of antibiotics in open fractures of the finger. 1990;15A:761-4
Swanson E, Freiberg A, Salter DR. Radial artery infections and aneurysms after catheterization. 1990;15A:166-71
Sweo TD (*see* Pogue et al). 1990;15A:721-7
—— (*see* Viegas et al). 1990;15A:120-8
—— (*see* Viegas et al). 1990;15A:268-78
Szabo RM, Thorson EP, Raskind JR. Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius. 1990;15A:929-33
——, Younger E. Effects of indomethacin on adhesion formation after repair of zone II tendon lacerations in the rabbit. 1990;15A:480-3
Szeverenyi NM (*see* Skahen et al). 1990;15A:552-7

T

Tamai S (*see* Fukui et al). 1990;15A:160-5
—— (*see* Inada et al). 1990;15A:921-4
Tang J-b, Ishii S, Usui M, Naito T. Multifocal neurilemomas in different nerves of the same upper extremity. 1990;15A:788-92
Terrono A, Millender L, Nalebuff E. Boutonniere rheumatoid thumb deformity. 1990;15A:999-1003
—— (*see* Miller-Breslow et al). 1990;15A:493-6
Thorson EP (*see* Szabo et al). 1990;15A:929-33
Toby EB (*see* Koman et al). 1990;15A:582-6
—— (*see* Lourie et al). 1990;15A:367-9
Tomas ES (*see* Keenan et al). 1990;15A:340-6
Tonkin MA (*see* Hobbs et al). 1990;15A:38-43
Tropet Y, Menez D, Balmat P, Pem R, Vichard Ph. Closed traumatic rupture of the ring finger flexor tendon pulley. 1990;15A:745-7
True MS (*see* Graham et al). 1990;15A:450-6
Trumble TE. Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology. 1990;15A:557-64
——, Bour CJ, Smith RJ, Glisson RR. Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern. 1990;15A:384-92
——, Irving J. Histologic and magnetic resonance imaging correlations in Kienböck's disease. 1990;15A:879-84
——, Wu RK, Ruwe PA. Paget's disease in the hand: correlation of magnetic resonance imaging with histology. 1990;15A:504-6
Tsai T-M (*see* Kanaya et al). 1990;15A:30-6
—— (*see* Pessa et al). 1990;15A:466-70
Tsang A (*see* Hung et al). 1990;15A:251-7
Tsang HK (*see* Leung et al). 1990;15A:11-7
Turner MA (*see* Alexander et al). 1990;15A:401-7
Turner RH (*see* Kobus and Turner). 1990;15A:541-6

U

Unsell RS (*see* Adams et al). 1990;15A:487-92
Urbaniak J (*see* Lourie et al). 1990;15A:367-9
Usui M (*see* Tang et al). 1990;15A:788-92

V

Vanwijck R (*see* Heymans et al). 1990;15A:509-11
Van Winckle G (*see* Brumfield et al). 1990;15A:733-5
Ventura M (*see* Schuind et al). 1990;15A:497-503
Vichard Ph (*see* Tropet et al). 1990;15A:745-7
Viegas SF, Patterson RM, Peterson PD, Pogue DJ, Jenkins DK, Sweo TD, Hokanson JA. Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation. 1990;15A:120-8
——, ——, ——, ——, ——, ——, ——. Ulnar-sided perilunate instability: an anatomic and biomechanical study. 1990;15A:268-78
——, Pogue DJ, Patterson RM, Peterson PD. Effects of radioulnar instability on the radiocarpal joint: a biomechanical study. 1990;15A:728-32
——, Wagner K, Patterson R, Peterson P. Medial (hamate) facet of the lunate. 1990;15A:564-71
—— (*see* Pogue et al). 1990;15A:721-7
von Schroeder HP, Botte MJ, Gellman H. Anatomy of the juncturae tendinum of the hand. 1990;15A:595-602
—— (*see* Botte et al). 1990;15A:603-7

W

Waggy CA (*see* Labosky et al). 1990;15A:294-301
Wagner K (*see* Viegas et al). 1990;15A:564-71
Walker LG, Lesavoy MA. Traumatic rupture of the profundus tendon proximal to the lumbrical origin. 1990;15A:484-6
——, Meals RA. Pathologic fracture of the proximal ulna through a bone graft donor site. 1990;15A:781-4
——, Simmons BP, Lovallo JL. Pediatric herpetic hand infections. 1990;15A:176-80
Wallis KA (*see* Rogers et al). 1990;15A:990-5
Waters RL, Stark LZ, Gubernick I, Bellman H, Barnes G. Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia. 1990;15A:335-9
—— (*see* Orcutt et al). 1990;15A:940-4
Watson HK (*see* Rogers and Watson). 1990;15A:232-5
Weeks PM (*see* Pin et al). 1990;15A:110-9
Weiland AJ (*see* Carey et al). 1990;15A:625-30
—— (*see* Zimmerman and Weiland). 1990;15A:701-5
Weiss A-PC (*see* Carey et al). 1990;15A:625-30
Werner F (*see* Chun et al). 1990;15A:669-71
Whelan EP (*see* Anderson et al). 1990;15A:420-5
White DN (*see* Apfelberg et al). 1990;15A:765-73
White W (*see* Hamm et al). 1990;15A:980-6
Whitney TM, Lineaweaver WC, Buncke HJ, Nugent K. Clinical results of bony fixation methods in digital replantation. 1990;15A:328-34
Wicks BP (*see* Chun et al). 1990;15A:669-71
Wicks MH (*see* Fowler and Wicks). 1990;15A:571-2
Wilhelm K (*see* Euler et al). 1990;15A:659-62
Witczak JW, Masear VR, Meyer RD. Triggering of the thumb with de Quervain's stenosing tendovaginitis. 1990;15A:265-8
Woo SL-Y (*see* Gelberman et al). 1990;15A:69-77
Wood VE, Biondi J. Treatment of the windblown hand. 1990;15A:431-8
Wu RK (*see* Trumble et al). 1990;15A:504-6

Y

Young VL (*see* Pin et al). 1990;15A:110-9
Younger E (*see* Szabo and Younger). 1990;15A:480-3
Yousif NJ (*see* Grunert et al). 1990;15A:511-5
—— (*see* Sanger et al). 1990;15A:976-9

Z

Zeiss J (*see* Skie et al). 1990;15A:934-9
Zhoug S-Z (*see* Dai et al). 1990;15A:36-7
Zimmerman NB, Weiland AJ. Scapholunate dissociation in the skeletally immature carpus. 1990;15A:701-5
Zinberg EM (*see* Botte et al). 1990;15A:603-7
Zook EG (*see* Stagnone et al). 1990;15A:987-9

Subject index*

A

Abductor pollicis longus
Incidence of a septum within the first dorsal compartment of the wrist (Leslie et al). 1990;15A:88-91
Triggering of the thumb with de Quervain's stenosing tendovaginitis (Witczak et al). 1990;15A:265-8

Abnormalities
Bilateral palmaris profundus causing bilateral carpal tunnel syndrome (Floyd et al). 1990;15A:364-6
Congenital bipartite scaphoid (Doman and Marcus). 1990;15A:869-73
Congenital flexion deformities of the proximal interphalangeal joint in children: a subgroup of camptodactyly (Koman et al). 1990;15A:582-6
Congenital hand anomalies in Japan: a family study (Miura et al). 1990;15A:439-44
Congenital onychodysplasia of the index fingers (Miura and Nakamura). 1990;15A:793-7
Hypoplasia of the humeral trochlea (Sato and Miura). 1990;15A:1004-7
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9
Three cases of syndactyly, polydactyly, and hypoplastic triphalangeal thumb: (Haas's malformation) (Miura et al). 1990;15A:445-9
Treatment of the windblown hand (Wood and Biondi). 1990;15A:431-8
Unilateral osteonecrosis in a patient with bilateral os centrale carpi (Lane et al). 1990;15A:751-4

Accidental falls
Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20

Accidents, occupational
Thrombosis of the vena comitantes of the ulnar artery (Gonzalez and Hall). 1990;15A:773-6
Traumatic rupture of the profundus tendon proximal to the lumbrical origin (Walker and Lesavoy). 1990;15A:484-6
Treatment of posttraumatic stress disorder after work-related hand trauma (Grunert et al). 1990;15A:511-5

Acrospiroma; *see* **Hidradenoma**

Activities of daily living
Functional range of motion of the joints of the hand (Hume et al). 1990;15A:240-3

Adaptation, psychological
Treatment of posttraumatic stress disorder after work-related hand trauma (Grunert et al). 1990;15A:511-5

Adhesions
Effect of various methods of restoring flexor sheath integrity on the formation of adhesions after tendon injury (Peterson et al). 1990;15A:48-56
Effects of indomethacin on adhesion formation after repair of zone II tendon lacerations in the rabbit (Szabo and Younger). 1990;15A:480-3

Adrenal cortex hormones
Treatment of trigger finger by steroid injection (Newport et al). 1990;15A:748-50

Allograft; *see* **Transplantation, homologous**

American Society for Surgery of the Hand
Items. 1990;15A:184-9, 377-81, 525-9, 675-9, 839-43, 1011-5
The 1988 Bunnell Traveling Fellow Report (Blair). 1990;15A:665-8
Proceedings of the American Society for Surgery of the Hand. 1990;15A:806-33

Amputation
Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6
Keratoacanthoma necessitating metacarpal amputation (Hamm et al). 1990;15A:980-6
Malignant acrospiroma (Stagnone et al). 1990;15A:987-90
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21

Amputation, traumatic
Local neurovascular island flap (Cook et al). 1990;15A:798-802
Temporary ectopic implantation (Chernofsky and Sauer). 1990;15A:910-4

Anastomosis, surgical
Histopathology of microarterial anastomoses: end-to-end versus end-in-end (sleeve) technique (Siemionow). 1990;15A:619-25

Anatomy
Anatomic variations of the midcarpal joint (Burgess). 1990;15A:129-31
Anatomy of the juncturae tendinum of the hand (von Schroeder et al). 1990;15A:595-602
Arterial system of the fingers (Strauch and de Moura). 1990;15A:148-54
The evolution of carpal nomenclature: a short review (Johnson). 1990;15A:834-8
Incidence of anatomic variants in Guyon's canal (Dodds et al). 1990;15A:352-5
Medial (hamate) facet of the lunate (Viegas et al). 1990;15A:564-71
Microvascular anatomy of the radioscapholunate ligament of the wrist (Hixson and Stewart). 1990;15A:279-82
The nerve of Henlé (McCabe and Kleinert). 1990;15A:784-8
The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54
Phasic relationships of the extrinsic muscles of the normal hand (Johanson et al). 1990;15A:587-94

Anesthesia, local
Transthecal digital block: flexor tendon sheath used for anesthetic infusion (Chiu). 1990;15A:471-3

Aneurysm; *see also* **Pseudoaneurysm**
Radial artery infections and aneurysms after catheterization (Swanson et al). 1990;15A:166-71

*January-February, pp. 1-190; March-April, pp. 191-382; May-June, pp. 383-530; July-August, pp. 531-680; September-October, pp. 681-844; November-December, pp. 845-1042.

Surgical management of ulnar artery aneurysms (Rothkopf et al). 1990;15A:891-7
Thrombosis of the vena comitantes of the ulnar artery (Gonzalez and Hall). 1990;15A:773-6

Aneurysm, arteriovenous; *see* **Arteriovenous fistula**

Antibiotics
Role of antibiotics in open fractures of the finger (Suprock et al). 1990;15A:761-4

Arteries
Arterial system of the fingers (Strauch and de Moura). 1990;15A:148-54
Mycotic aneurysm in a digital artery: case report and literature review (Berrettoni and Seitz). 1990;15A:305-8
Radial artery infections and aneurysms after catheterization (Swanson et al). 1990;15A:166-71
Surgical management of ulnar artery aneurysms (Rothkopf et al). 1990;15A:891-7
Thrombosis of the vena comitantes of the ulnar artery (Gonzalez and Hall). 1990;15A:773-6

Arteriovenous fistula
Mycotic aneurysm in a digital artery: case report and literature review (Berrettoni and Seitz). 1990;15A:305-8

Arteriovenous shunt, surgical
Arteriovenous shunt in digit replantation (Fukui et al). 1990;15A:160-5

Arthritis; *see also* **Osteoarthritis**
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6

Arthritis, rheumatoid
Convex condylar arthroplasty of the basal joint of the thumb: failure under load (Jennings and Livingstone). 1990;15A:573-81
A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid (McMurtry et al). 1990;15A:224-31
Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb (Figgie et al). 1990;15A:210-6
Results of dorsal wrist synovectomies in the rheumatoid hand (Brumfield et al). 1990;15A:733-5
Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision (Leslie et al). 1990;15A:547-51
Trispherical total wrist arthroplasty in rheumatoid arthritis (Figgie et al). 1990;15A:217-23
Wrist arthrodesis for treatment of rheumatoid arthritis (Kobus and Turner). 1990;15A:541-6

Arthrodesis
Degenerative arthritis at the triscaphe joint (Rogers and Watson). 1990;15A:232-5
Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization (Clough et al). 1990;15A:706-11
Osteoarthritis of the proximal interphalangeal joint of the hand: arthroplasty or fusion? (Pellegrini and Burton). 1990;15A:194-209
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Wrist arthrodesis for treatment of rheumatoid arthritis (Kobus and Turner). 1990;15A:541-6

Arthrogryposis
Treatment of the windblown hand (Wood and Biondi). 1990;15A:431-8

Arthroplasty, replacement; *see* **Joint prosthesis**

Arthroscopy
Distraction for wrist arthroscopy (Kaempffe and Peimer). 1990;15A:520-1
Wrist injuries: correlation of clinical and arthroscopic findings (North and Meyer). 1990;15A:915-20

Assessment methods; *see* **Outcome and process assessment**

Avascular necrosis of bone; *see* **Osteonecrosis**

Avulsion injuries; *see* **Injuries, avulsion**

Axillary nerve
Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury (Dai et al). 1990;15A:36-7

B

Bacterial infections
Acute flexor tendon sheath infections (Maloon et al). 1990;15A:474-7
Radial artery infections and aneurysms after catheterization (Swanson et al). 1990;15A:166-71
Traumatic infected pseudoaneurysm of the hand (Sadove). 1990;15A:906-9

Basal joint
Convex condylar arthroplasty of the basal joint of the thumb: failure under load (Jennings and Livingstone). 1990;15A:573-81

Biceps brachii muscle
Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma (Karev and Stahl). 1990;15A:94-7

Biofeedback
Thermal self-regulation for pain control in reflex sympathetic dystrophy syndrome (Grunert et al). 1990;15A:615-8

Biomechanics
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Effects of distal radius fracture malunion on wrist joint mechanics (Pogue et al). 1990;15A:721-7
Effects of radioulnar instability on the radiocarpal joint: a biomechanical study (Viegas et al). 1990;15A:728-32
Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation (Viegas et al). 1990;15A:120-8
Ulnar-sided perilunate instability: an anatomic and biomechanical study (Viegas et al). 1990;15A:268-78
Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation (Shaw et al). 1990;15A:712-20

Bites, human
Acute flexor tendon sheath infections (Maloon et al). 1990;15A:474-7

Bladder neoplasms
Hand metastases from urothelial tumor (Heymans et al). 1990;15A:509-11

Blood vessels; *see also* **Arteries**; **Veins**
Acute pulmonary edema associated with use of low-molecular weight dextran for prevention of microvascular thromboprophylaxis (Kitziger et al). 1990;15A:902-5
Arterial system of the fingers (Strauch and de Moura). 1990;15A:148-54
Microvascular anatomy of the radioscapholunate ligament of the wrist (Hixson and Stewart). 1990;15A:279-82

Blood vessels—cont'd
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6
Bone cysts
Bilateral unicameral bone cysts in the hamate bones (Jasan et al). 1990;15A:888-90
Bone graft; *see* **Bone transplantation**
Bone neoplasms
Chondrosarcoma of small bones of the hand arising from enchondroma (Nelson et al). 1990;15A:655-9
Ewing's sarcoma of the hand: localization and treatment (Euler et al). 1990;15A:659-62
Bone plates
Forearm fracture plates: to remove or not to remove (Labosky et al). 1990;15A:294-301
Bone screws
Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions (Fernandez). 1990;15A:140-7
Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization (Clough et al). 1990;15A:706-11
Internal fixation of a capitate fracture with Herbert screws (Richards et al). 1990;15A:885-7
Two modifications for insertion of the Herbert screw in the fractured scaphoid (Chun et al). 1990;15A:669-71
Bone transplantation
Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions (Fernandez). 1990;15A:140-7
Cloward technique for obtaining iliac crest bone graft in hand surgery (Brody and Hentz). 1990;15A:181-3
An effective treatment of comminuted fractures of the distal radius (Leung et al). 1990;15A:11-7
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Pathologic fracture of the proximal ulna through a bone graft donor site (Walker and Meals). 1990;15A:781-4
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6
Bone wires
Clinical results of bony fixation methods in digital replantation (Whitney et al). 1990;15A:328-34
Intraosseous compression wiring of displaced articular condylar fractures (Rayhack and Bottke). 1990;15A:370-3
Book reviews
Book reviews. 1990;15A:524
Boutonniere deformity
Boutonniere rheumatoid thumb deformity (Terrono et al). 1990;15A:999-1003
Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb (Figgie et al). 1990;15A:210-6
Brachial plexus
Improvement in motor function after brachial plexus surgery (Kanaya et al). 1990;15A:30-6
Brachioradialis muscle
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Brachioradialis tendon
Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia (Waters et al). 1990;15A:335-9
Brain injuries
Carpal tunnel syndrome secondary to wrist and finger flexor spasticity (Orcutt et al). 1990;15A:940-4
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6
BTE Work Simulator; *see* **Equipment and supplies**
Bunnell Traveling Fellowship Award
The 1988 Bunnell Traveling Fellow Report (Blair). 1990;15A:665-8
Burns, child
Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6

C

Camptodactyly, congenital
Congenital flexion deformities of the proximal interphalangeal joint in children: a subgroup of camptodactyly (Koman et al). 1990;15A:582-6
Canadian Society for Surgery of the Hand
Proceedings of the Canadian Society for Surgery of the Hand. 1990;15A:803-5
Capitate bone
Internal fixation of a capitate fracture with Herbert screws (Richards et al). 1990;15A:885-7
Carpal bones
Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern (Trumble et al). 1990;15A:384-92
Proximal row carpectomy: clinical evaluation (Imbriglia et al). 1990;15A:426-30
Segmental motion of the proximal carpal row: their global effect on the wrist motion (Seradge et al). 1990;15A:236-9
Unilateral osteonecrosis in a patient with bilateral os centrale carpi (Lane et al). 1990;15A:751-4
Carpal bones, anatomy
Anatomic variations of the midcarpal joint (Burgess). 1990;15A:129-31
The evolution of carpal nomenclature: a short review (Johnson). 1990;15A:834-8
Carpal bones, injuries
Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation (Viegas et al). 1990;15A:120-8
Scapholunate dissociation in the skeletally immature carpus (Zimmerman and Weiland). 1990;15A:701-5
A standardized measurement of ulnar carpal translocation (DiBenedetto et al). 1990;15A:1009-10
Carpal bones, pathology
Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6
Carpal instability; *see* **Joint instability**

Carpal tunnel
Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging (Skie et al). 1990;15A:934-9
Carpal tunnel syndrome
Bilateral palmaris profundus causing bilateral carpal tunnel syndrome (Floyd et al). 1990;15A:364-6
Carpal tunnel syndrome secondary to wrist and finger flexor spasticity (Orcutt et al). 1990;15A:940-4
Distal rupture of the palmaris longus tendon and fascia as a cause of acute carpal tunnel syndrome (Lourie et al). 1990;15A:367-9
Idiopathic carpal tunnel syndrome: histologic study of flexor tendon synovium (Schuind et al). 1990;15A:497-503
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9
A self-administered hand diagram for the diagnosis of carpal tunnel syndrome (Katz and Stirrat). 1990;15A:360-3
Carpometacarpal joint
Dorsal dislocation of the fifth carpometacarpal joint (Laforgia et al). 1990;15A:463-5
Transcarpal carpometacarpal dislocations, excluding the thumb (Garcia-Elias et al). 1990;15A:531-40
Catheterization
Radial artery infections and aneurysms after catheterization (Swanson et al). 1990;15A:166-71
Children; *see* **Pediatrics**
Chondroma
Chondrosarcoma of small bones of the hand arising from enchondroma (Nelson et al). 1990;15A:655-9
Chondromatosis, synovial
Synovial chondromatosis in the distal interphalangeal joint (Harvey and Negrine). 1990;15A:102-5
Chondrosarcoma
Chondrosarcoma of small bones of the hand arising from enchondroma (Nelson et al). 1990;15A:655-9
Cloward technique
Cloward technique for obtaining iliac crest bone graft in hand surgery (Brody and Hentz). 1990;15A:181-3
Colles' fracture
A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid (McMurtry et al). 1990;15A:224-31
An effective treatment of comminuted fractures of the distal radius (Leung et al). 1990;15A:11-7
Compartment syndromes
A noninvasive technique for diagnosis of chronic compartment syndrome in the first dorsal interosseous muscle (Dellon and Fine). 1990;15A:1008-9
Compassion
Care with care (Green). 1990;15A:191-3
Compression plates; *see* **Bone plates**
Computer simulation
Effect on force transmission across the carpus in procedures used to treat Kienböck's disease (Horii et al). 1990;15A:393-400
Contracture
Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6
Treatment of the windblown hand (Wood and Biondi). 1990;15A:431-8
Corticosteroids; *see* **Adrenal cortex hormones**
Cross-finger flap; *see* **Flaps**

D

Daily living activities; *see* **Activities of daily living**
Darrach procedure
A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid (McMurtry et al). 1990;15A:224-31
de Quervain's disease; *see* **Tenosynovitis**
Debridement
Role of antibiotics in open fractures of the finger (Suprock et al). 1990;15A:761-4
Degenerative arthritis; *see* **Osteoarthritis**
Demography
A role delineation study of hand surgery (Steyers et al). 1990;15A:681-9
Department of technique
Department of technique. 1990;15A:181-3, 370-6, 520-2, 669-74, 1008-10
Dermatitis herpetiformis, child
Pediatric herpetic hand infections (Walker et al). 1990;15A:176-80
Dextran
Acute pulmonary edema associated with use of low-molecular weight dextran for prevention of microvascular thromboprophylaxis (Kitziger et al). 1990;15A:902-5
Diabetes mellitus
Acute flexor tendon sheath infections (Maloon et al). 1990;15A:474-7
Diagrams
A self-administered hand diagram for the diagnosis of carpal tunnel syndrome (Katz and Stirrat). 1990;15A:360-3
Digital nerve
Glomus tumor originating within a digital nerve (Kline et al). 1990;15A:98-101
Digital replantation; *see* **Replantation**
Dislocations
Dorsal dislocation of the fifth carpometacarpal joint (Laforgia et al). 1990;15A:463-5
Dorsal dislocation of the lunate with multiple extensor tendon ruptures (Schwartz et al). 1990;15A:132-3
Dorsal dislocation of the trapezoid (Ostrowski et al). 1990;15A:874-8
An effective method of reconstructing posttraumatic dorsal dislocated distal radioulnar joints (Leung and Hung). 1990;15A:925-8
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
Irreducible palmar dislocation of the proximal interphalangeal joint of the finger (Inoue and Maeda). 1990;15A:301-4
Palmar dislocation of scaphoid and lunate as a unit (Sarrafian and Breihan). 1990;15A:134-9
Transcarpal carpometacarpal dislocations, excluding the thumb (Garcia-Elias et al). 1990;15A:531-40
Traumatic and spontaneous dislocation of extensor tendon of the long finger (Ishizuki). 1990;15A:967-72
Distal interphalangeal joint
Closed traumatic rupture of the ring finger flexor tendon pulley (Tropet et al). 1990;15A:745-7
Synovial chondromatosis in the distal interphalangeal joint (Harvey and Negrine). 1990;15A:102-5
Distal radius; *see* **Radius**

Doppler flowmeters; *see* **Flowmeters**
Dupuytren's contracture
Fasciectomy for treatment of Dupuytren's disease and early complications (Sennwald). 1990;15A:755-61

E

Early ambulation
Double loop locking suture: a technique of tendon repair for early active mobilization. Part I: evolution of technique and experimental study (Lee). 1990;15A:945-52
Double loop locking suture: a technique of tendon repair for early active mobilization. Part II: clinical experience (Lee). 1990;15A:953-8
Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries (Hung et al). 1990;15A:251-7
Edema, pulmonary; *see* **Pulmonary edema**
Editorials
Editorials. 1990;15A:383
Elbow
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Epineural ganglion of the ulnar nerve at the elbow (Ferlic and Ries). 1990;15A:996-8
Medial epicondylectomy for the treatment of ulnar nerve compression at the elbow (Heithoff et al). 1990;15A:22-9
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6
Electromyography
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia (Waters et al). 1990;15A:335-9
Phasic relationships of the extrinsic muscles of the normal hand (Johanson et al). 1990;15A:587-94
Empathy
Care with care (Green). 1990;15A:191-3
Enchondroma; *see* **Chondroma**
Entrapment neuropathy; *see* **Nerve compression syndromes**
Environmental exposure
Ramazzini and occupational diseases (Louis). 1990;15A:663-4
Epidermal cyst
An intratendinous epidermoid cyst after trauma (O'Hara and Stone). 1990;15A:477-9
Epiphyseal plate; *see* **Growth plate**
Epiphyses
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
Equipment and supplies
Normative study of grip and wrist flexion strength employing a BTE Work Simulator (Anderson et al). 1990;15A:420-5
Ewing's sarcoma; *see* **Sarcoma, Ewing's**
Exostoses, multiple hereditary
Reconstruction of the triangular fibrocartilage complex after surgery for treatment of synovial osteochondromatosis of the distal radioulnar joint (Inada et al). 1990;15A:921-4
Extensor carpi radialis brevis
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Extensor carpi radialis longus
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Extensor carpi ulnaris
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision (Leslie et al). 1990;15A:547-51
Extensor pollicis brevis
De Quervain's disease: surgical or nonsurgical treatment (Harvey et al). 1990;15A:83-7
Incidence of a septum within the first dorsal compartment of the wrist (Leslie et al). 1990;15A:88-91
Triggering of the thumb with de Quervain's stenosing tendovaginitis (Witczak et al). 1990;15A:265-8
Extensor tendons
Anatomy of the juncturae tendinum of the hand (von Schroeder et al). 1990;15A:595-602
Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries (Hung et al). 1990;15A:251-7
Long-term results of extensor tendon repair (Newport et al). 1990;15A:961-6
Traumatic and spontaneous dislocation of extensor tendon of the long finger (Ishizuki). 1990;15A:967-72

F

Fascia lata, animal
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Fasciectomy
Fasciectomy for treatment of Dupuytren's disease and early complications (Sennwald). 1990;15A:755-61
Femur head, animal
Microsurgical revascularization of ischemic rat femoral heads (Saldana et al). 1990;15A:309-15
Fetal development
The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54
Fibroma
Intratendinous fibroma of flexor tendon (Grenga). 1990;15A:92-3
Recurrent digital fibromatosis of childhood (Lauri et al). 1990;15A:106-9
Fingers, abnormalities; *see* **Abnormalities**
Fingers, blood supply
Arterial system of the fingers (Strauch and de Moura). 1990;15A:148-54
Fixation, fracture; *see* **Fracture fixation**
Flaps
Local neurovascular island flap (Cook et al). 1990;15A:798-802
Preliminary assessment of laser Doppler flowmetry for determining timing of division of the cross-finger flap (Hallock). 1990;15A:898-901
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Serratus anterior muscle transplantation for treatment of soft tissue defects in the hand (Brody et al). 1990;15A:322-7
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Use of a reverse cross-finger flap as a vascularized vein graft carrier in ring avulsion injuries (Martin et al). 1990;15A:155-9
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6

Flatt, Adrian E.
Adrian E. Flatt, MD: an editor for excellence (Omer). 1990;15A:845-6
Flexor carpi radialis
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Flexor carpi ulnaris
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Flexor digitorum profundus
Distal stenosing tenosynovitis (Rayan). 1990;15A:973-5
Effects of indomethacin on adhesion formation after repair of zone II tendon lacerations in the rabbit (Szabo and Younger). 1990;15A:480-3
Traumatic rupture of the profundus tendon proximal to the lumbrical origin (Walker and Lesavoy). 1990;15A:484-6
Type IV flexor digitorum profundus avulsion (Eglseder and Russell). 1990;15A:735-9
Flexor pollicis longus
Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia (Waters et al). 1990;15A:335-9
Flexor tendon sheath
Acute flexor tendon sheath infections (Maloon et al). 1990;15A:474-7
Effect of various methods of restoring flexor sheath integrity on the formation of adhesions after tendon injury (Peterson et al). 1990;15A:48-56
Influences of flexor sheath continuity and early motion on tendon healing in dogs (Gelberman et al). 1990;15A:69-77
Intratendinous fibroma of flexor tendon (Grenga). 1990;15A:92-3
Transthecal digital block: flexor tendon sheath used for anesthetic infusion (Chiu). 1990;15A:471-3
Flexor tendons
Carpal tunnel syndrome secondary to wrist and finger flexor spasticity (Orcutt et al). 1990;15A:940-4
Evaluation of results in flexor tendon repair: a critical analysis of five methods in ninety-five digits (So et al). 1990;15A:258-64
A splint for controlled active motion after flexor tendon repair: design, mechanical testing, and preliminary clinical results (Chow et al). 1990;15A:645-51
Flexor tendons, animal
Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization (Feehan and Beauchene). 1990;15A:63-8
Flexor tendons, injuries
Closed traumatic rupture of the ring finger flexor tendon pulley (Tropet et al). 1990;15A:745-7
Flexor tendon ruptures secondary to hamate hook fractures (Milek and Boulas). 1990;15A:740-4
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5
Flowmeters
Preliminary assessment of laser Doppler flowmetry for determining timing of division of the cross-finger flap (Hallock). 1990;15A:898-901
Forearm injuries
Anterior interosseous nerve palsy complicating a forearm fracture in a child (Geissler et al). 1990;15A:44-7
Forearm fracture plates: to remove or not to remove (Labosky et al). 1990;15A:294-301
Foreign-body granuloma; *see* **Granuloma, foreign-body**
Fracture fixation
An effective treatment of comminuted fractures of the distal radius (Leung et al). 1990;15A:11-7
Intraarticular fractures of the distal radius: a cadaveric study to determine if ligamentotaxis restores radiopalmar tilt (Bartosh and Saldana). 1990;15A:18-21
Limited open surgical approach for external fixation of distal radius fractures (Seitz et al). 1990;15A:288-93
Fracture fixation, internal
Forearm fracture plates: to remove or not to remove (Labosky et al). 1990;15A:294-301
Internal fixation of a capitate fracture with Herbert screws (Richards et al). 1990;15A:885-7
Intraosseous compression wiring of displaced articular condylar fractures (Rayhack and Bottke). 1990;15A:370-3
Open reduction and internal fixation of comminuted, intraarticular fractures of the distal radius (Axelrod and McMurtry). 1990;15A:1-11
Two modifications for insertion of the Herbert screw in the fractured scaphoid (Chun et al). 1990;15A:669-71
Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation (Shaw et al). 1990;15A:712-20
Use of a step-cut osteotomy for immediate posttraumatic proximal interphalangeal joint fusion (Hagan and Hastings). 1990;15A:374-6
Fractures; *see also* **Fracture fixation**
Flexor tendon ruptures secondary to hamate hook fractures (Milek and Boulas). 1990;15A:740-4
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
Pathologic fracture of the proximal ulna through a bone graft donor site (Walker and Meals). 1990;15A:781-4
Proximal phalangeal fracture after tendon pulley reconstruction (Sanger et al). 1990;15A:976-9
An unusual combination of simultaneous fracture of the tuberosity of the trapezium and the hook of the hamate (Jensen and Christensen). 1990;15A:285-7
Fractures, closed
Fractures of the sesamoid bones of the thumb (Patel et al). 1990;15A:776-81
Fractures, open
Fractures of the sesamoid bones of the thumb (Patel et al). 1990;15A:776-81
Open reduction and internal fixation of comminuted, intraarticular fractures of the distal radius (Axelrod and McMurtry). 1990;15A:1-11
Role of antibiotics in open fractures of the finger (Suprock et al). 1990;15A:761-4
Fractures, ununited
Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions (Fernandez). 1990;15A:140-7
Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology (Trumble). 1990;15A:557-64
Effects of distal radius fracture malunion on wrist joint mechanics (Pogue et al). 1990;15A:721-7
Experimental corrective scaphoid osteotomy for scaphoid malunion with abnormal wrist mechanics (Birchard and Pichora). 1990;15A:863-8
Nonunion of a fractured scaphoid tubercle (Jonsson). 1990;15A:283-5

Free flaps; *see* **Flaps**
Fusion; *see* **Arthrodesis**

G

Ganglia
Epineural ganglion of the ulnar nerve at the elbow (Ferlic and Ries). 1990;15A:996-8
Genetics
Congenital hand anomalies in Japan: a family study (Miura et al). 1990;15A:439-44
Giant cell tumors
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
Glomus tumor
Glomus tumor originating within a digital nerve (Kline et al). 1990;15A:98-101
Magnetic resonance imaging of a glomus tumor of the fingertip (Jablon et al). 1990;15A:507-9
Gloves, surgical
The wrist tourniquet: an alternative technique in hand surgery (Guirguis and Bell). 1990;15A:516-9
Granuloma, foreign-body
Barber's interdigital pilonidal sinus of the hand: a foreign body hair granuloma (Patel et al). 1990;15A:652-5
Growth plate, animal
Quantifying the effect of ischemia on epiphyseal growth in an extremity replant model (Carey et al). 1990;15A:625-30
Guanethidine
Fasciectomy for treatment of Dupuytren's disease and early complications (Sennwald). 1990;15A:755-61
Guyon's canal
Incidence of anatomic variants in Guyon's canal (Dodds et al). 1990;15A:352-5

H

Hamate bone
Bilateral unicameral bone cysts in the hamate bones (Jasan et al). 1990;15A:888-90
Hamate hook
Flexor tendon ruptures secondary to hamate hook fractures (Milek and Boulas). 1990;15A:740-4
An unusual combination of simultaneous fracture of the tuberosity of the trapezium and the hook of the hamate (Jensen and Christensen). 1990;15A:285-7
Hand deformities, congenital; *see* **Abnormalities**
Hand diagram; *see* **Diagrams**
Hemangioma
YAG laser resection of complicated hemangiomas of the hand and upper extremity (Apfelberg et al). 1990;15A:765-73
Herbert screws; *see* **Bone screws**
Herpesvirus hominis
Pediatric herpetic hand infections (Walker et al). 1990;15A:176-80
Hidradenoma
Malignant acrospiroma (Stagnone et al). 1990;15A:987-90
Histiocytoma
Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma (Karev and Stahl). 1990;15A:94-7
Histology
Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology (Trumble). 1990;15A:557-64
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Histologic and magnetic resonance imaging correlations in Kienböck's disease (Trumble and Irving). 1990;15A:879-84
Idiopathic carpal tunnel syndrome: histologic study of flexor tendon synovium (Schuind et al). 1990;15A:497-503
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6
Historical notes
Historical notes. 1990;15A:663-4
Historical reviews
Historical reviews. 1990;15A:834-8
Humerus, abnormalities
Hypoplasia of the humeral trochlea (Sato and Miura). 1990;15A:1004-7
Hypoplasia; *see* **Abnormalities**
Hypothenar muscle
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9

I

Immobilization
Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization (Feehan and Beauchene). 1990;15A:63-8
Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization (Clough et al). 1990;15A:706-11
Implant, artificial, joint; *see* **Joint prosthesis**
In appreciation
In appreciation. 1990;15A:845-6
Indomethacin
Effects of indomethacin on adhesion formation after repair of zone II tendon lacerations in the rabbit (Szabo and Younger). 1990;15A:480-3
Infections, bacterial; *see* **Bacterial infections**
Infections, viral; *see* **Virus diseases**
Injuries; *see also* **Accidental falls; Accidents, occupational; Amputation, traumatic; Dislocations; Fractures; Injuries, avulsion**
Closed traumatic rupture of the ring finger flexor tendon pulley (Tropet et al). 1990;15A:745-7
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Distal rupture of the palmaris longus tendon and fascia as a cause of acute carpal tunnel syndrome (Lourie et al). 1990;15A:367-9
Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries (Hung et al). 1990;15A:251-7
Long-term results of extensor tendon repair (Newport et al). 1990;15A:961-6
Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study (Meade et al). 1990;15A:855-62
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5
Surgical management of ulnar artery aneurysms (Rothkopf et al). 1990;15A:891-7
Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury (Dai et al). 1990;15A:36-7
Traumatic infected pseudoaneurysm of the hand (Sadove). 1990;15A:906-9

Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation (Shaw et al). 1990;15A:712-20
Use of a step-cut osteotomy for immediate posttraumatic proximal interphalangeal joint fusion (Hagan and Hastings). 1990;15A:374-6
Vibration exposure and peripheral nerve fiber damage (Lundborg et al). 1990;15A:346-51

Injuries, avulsion
Effects of radioulnar instability on the radiocarpal joint: a biomechanical study (Viegas et al). 1990;15A:728-32
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
Nonunion of a fractured scaphoid tubercle (Jonsson). 1990;15A:283-5
Type IV flexor digitorum profundus avulsion (Eglseder and Russell). 1990;15A:735-9
Use of a reverse cross-finger flap as a vascularized vein graft carrier in ring avulsion injuries (Martin et al). 1990;15A:155-9

Internal fracture fixation; *see* **Fracture fixation, internal**

International Federation of Societies for Surgery of the Hand
Items. 1990;15A:190, 382, 530, 680, 844, 1016

Interosseous ligament
Scapholunate interosseous reconstruction and imbrication of palmar ligaments (Conyers). 1990;15A:690-700

Interosseous muscle
A noninvasive technique for diagnosis of chronic compartment syndrome in the first dorsal interosseous muscle (Dellon and Fine). 1990;15A:1008

Interosseous nerve
Anterior interosseous nerve palsy complicating a forearm fracture in a child (Geissler et al). 1990;15A:44-7
Nonoperative treatment of anterior interosseous nerve paralysis (Miller-Breslow et al). 1990;15A:493-6

Interphalangeal joint, distal; *see* **Distal interphalangeal joint**

Interphalangeal joint, proximal; *see* **Proximal interphalangeal joint**

Intersegmental joints; *see* **Joints**

Ischemia, animal
Quantifying the effect of ischemia on epiphyseal growth in an extremity replant model (Carey et al). 1990;15A:625-30

Island flap; *see* **Flaps**

Isometric contraction
Normative study of grip and wrist flexion strength employing a BTE Work Simulator (Anderson et al). 1990;15A:420-5
Proximal row carpectomy: clinical evaluation (Imbriglia et al). 1990;15A:426-30

Items
Items. 1990;15A:184-90, 377-82, 525-30, 675-80, 839-44, 1011-6

J

Joint dislocations; *see* **Dislocations**

Joint instability
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Effects of radioulnar instability on the radiocarpal joint: a biomechanical study (Viegas et al). 1990;15A:728-32
Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation (Viegas et al). 1990;15A:120-8
Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern (Trumble et al). 1990;15A:384-92
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Scapholunate dissociation in the skeletally immature carpus (Zimmerman and Weiland). 1990;15A:701-5
Scapholunate interosseous reconstruction and imbrication of palmar ligaments (Conyers). 1990;15A:690-700
Transcarpal carpometacarpal dislocations, excluding the thumb (Garcia-Elias et al). 1990;15A:531-40
Ulnar-sided perilunate instability: an anatomic and biomechanical study (Viegas et al). 1990;15A:268-78
Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation (Shaw et al). 1990;15A:712-20

Joint prosthesis
Boutonniere rheumatoid thumb deformity (Terrono et al). 1990;15A:999-1003
Convex condylar arthroplasty of the basal joint of the thumb: failure under load (Jennings and Livingstone). 1990;15A:573-81
A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid (McMurtry et al). 1990;15A:224-31
Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7
Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb (Figgie et al). 1990;15A:210-6
Niebauer trapeziometacarpal arthroplasty (Adams et al). 1990;15A:487-92
Osteoarthritis of the proximal interphalangeal joint of the hand: arthroplasty or fusion? (Pellegrini and Burton). 1990;15A:194-209
Schultz metacarpophalangeal arthroplasty: a long-term follow-up study (Adams et al). 1990;15A:641-5
Trispherical total wrist arthroplasty in rheumatoid arthritis (Figgie et al). 1990;15A:217-23

Joints; *see also specific joints*
Distraction for wrist arthroscopy (Kaempffe and Peimer). 1990;15A:520-1
Functional range of motion of the joints of the hand (Hume et al). 1990;15A:240-3

The Journal of Hand Surgery
Readership survey (Bora). 1990;15A:383 (Editorial)

Juncturae tendinum
Anatomy of the juncturae tendinum of the hand (von Schroeder et al). 1990;15A:595-602

K

Keratoacanthoma
Keratoacanthoma necessitating metacarpal amputation (Hamm et al). 1990;15A:980-6

Kienböcks disease; *see* **Osteochondritis**

Kinetics
Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern (Trumble et al). 1990;15A:384-92

L

Laser surgery
YAG laser resection of complicated hemangiomas of the hand and upper extremity (Apfelberg et al). 1990;15A:765-73

Letters
"Extensor carpi ulnaris and flexor carpi ulnaris tenodesis of the unstable distal ulna" (Jupiter). 1990;15A:523

Letters—cont'd
Reflex sympathetic dystrophy: "gate" closed by lightning (Belsole and Smith). 1990;15A:523
Triquetral-lunate arthritis (Palmer). 1990;15A:523
Lidocaine
Transthecal digital block: flexor tendon sheath used for anesthetic infusion (Chiu). 1990;15A:471-3
Ligaments
Intraarticular fractures of the distal radius: a cadaveric study to determine if ligamentotaxis restores radiopalmar tilt (Bartosh and Saldana). 1990;15A:18-21
Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern (Trumble et al). 1990;15A:384-92
Microvascular anatomy of the radioscapholunate ligament of the wrist (Hixson and Stewart). 1990;15A:279-82
The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54
Ulnar-sided perilunate instability: an anatomic and biomechanical study (Viegas et al). 1990;15A:268-78
Ligaments, injuries
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management (Pin et al). 1990;15A:110-9
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study (Meade et al). 1990;15A:855-62
Scapholunate interosseous reconstruction and imbrication of palmar ligaments (Conyers). 1990;15A:690-700
Wrist injuries: correlation of clinical and arthroscopic findings (North and Meyer). 1990;15A:915-20
Lunate bone
Dorsal dislocation of the lunate with multiple extensor tendon ruptures (Schwartz et al). 1990;15A:132-3
Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation (Viegas et al). 1990;15A:120-8
Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7
Medial (hamate) facet of the lunate (Viegas et al). 1990;15A:564-71
Osteochondritis dissecans of the lunate (Fowler and Wicks). 1990;15A:571-2
Palmar dislocation of scaphoid and lunate as a unit (Sarrafian and Breihan). 1990;15A:134-9
Lunotriquetral ligaments
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management (Pin et al). 1990;15A:110-9
Ulnar-sided perilunate instability: an anatomic and biomechanical study (Viegas et al). 1990;15A:268-78

M

Magnetic resonance imaging
Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology (Trumble). 1990;15A:557-64
Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging (Skie et al). 1990;15A:934-9
Congenital bipartite scaphoid (Doman and Marcus). 1990;15A:869-73
Histologic and magnetic resonance imaging correlations in Kienböck's disease (Trumble and Irving). 1990;15A:879-84
Magnetic resonance imaging of a glomus tumor of the fingertip (Jablon et al). 1990;15A:507-9
Magnetic resonance imaging of the triangular fibrocartilage complex (Skahen et al). 1990;15A:552-7
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6
Malunited fractures; *see* **Fractures, ununited**
Median nerve
Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging (Skie et al). 1990;15A:934-9
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9
Palmar cutaneous branch of the median nerve (Hobbs et al). 1990;15A:38-43
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5
Metacarpal bones
Keratoacanthoma necessitating metacarpal amputation (Hamm et al). 1990;15A:980-6
Metacarpophalangeal joint
Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb (Figgie et al). 1990;15A:210-6
Schultz metacarpophalangeal arthroplasty: a long-term follow-up study (Adams et al). 1990;15A:641-5
Treatment of the windblown hand (Wood and Biondi). 1990;15A:431-8
Metacarpophalangeal joint, injuries
Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Fractures of the sesamoid bones of the thumb (Patel et al). 1990;15A:776-81
Microsurgery
Microsurgical revascularization of ischemic rat femoral heads (Saldana et al). 1990;15A:309-15
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Microvessels; *see* **Blood vessels**
Mobilization, early; *see* **Early ambulation**
Motion
Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization (Feehan and Beauchene). 1990;15A:63-8
Influences of flexor sheath continuity and early motion on tendon healing in dogs (Gelberman et al). 1990;15A:69-77
A splint for controlled active motion after flexor tendon repair: design, mechanical testing, and preliminary clinical results (Chow et al). 1990;15A:645-51
Motor activity
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Functional range of motion of the joints of the hand (Hume et al). 1990;15A:240-3
Improvement in motor function after brachial plexus surgery (Kanaya et al). 1990;15A:30-6
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6

Phasic relationships of the extrinsic muscles of the normal hand (Johanson et al). 1990;15A:587-94
Segmental motion of the proximal carpal row: their global effect on the wrist motion (Seradge et al). 1990;15A:236-9

Multifocal neurilemoma; *see* **Neurilemoma**

Muscle contraction
Normative study of grip and wrist flexion strength employing a BTE Work Simulator (Anderson et al). 1990;15A:420-5
Proximal row carpectomy: clinical evaluation (Imbriglia et al). 1990;15A:426-30

Muscle spasticity
Carpal tunnel syndrome secondary to wrist and finger flexor spasticity (Orcutt et al). 1990;15A:940-4
Dynamic electromyography to assess elbow spasticity (Keenan et al). 1990;15A:607-14
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6

Muscles, abnormalities
Bilateral palmaris profundus causing bilateral carpal tunnel syndrome (Floyd et al). 1990;15A:364-6
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9

Muscles, anatomy
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Phasic relationships of the extrinsic muscles of the normal hand (Johanson et al). 1990;15A:587-94

Muscles, pathology
A noninvasive technique for diagnosis of chronic compartment syndrome in the first dorsal interosseous muscle (Dellon and Fine). 1990;15A:1008
Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma (Karev and Stahl). 1990;15A:94-7

Muscles, transplantation
Serratus anterior muscle transplantation for treatment of soft tissue defects in the hand (Brody et al). 1990;15A:322-7
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6

Musculocutaneous nerve
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6
Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury (Dai et al). 1990;15A:36-7

N

Nails, malformed
Congenital onychodysplasia of the index fingers (Miura and Nakamura). 1990;15A:793-7
The repair of nail deformities with the nonvascularized nail bed graft: indications and results (Pessa et al). 1990;15A:466-70

Necrosis, avascular; *see* **Osteonecrosis**

Neoplasm metastasis
Hand metastases from urothelial tumor (Heymans et al). 1990;15A:509-11

Neoplasms
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
Chondrosarcoma of small bones of the hand arising from enchondroma (Nelson et al). 1990;15A:655-9
Ewing's sarcoma of the hand: localization and treatment (Euler et al). 1990;15A:659-62
Glomus tumor originating within a digital nerve (Kline et al). 1990;15A:98-101
Intratendinous fibroma of flexor tendon (Grenga). 1990;15A:92-3
Keratoacanthoma necessitating metacarpal amputation (Hamm et al). 1990;15A:980-6
Malignant acrospiroma (Stagnone et al). 1990;15A:987-9
Multifocal neurilemomas in different nerves of the same upper extremity (Tang et al). 1990;15A:788-92
Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma (Karev and Stahl). 1990;15A:94-7
YAG laser resection of complicated hemangiomas of the hand and upper extremity (Apfelberg et al). 1990;15A:765-73

Neovascularization
Microsurgical revascularization of ischemic rat femoral heads (Saldana et al). 1990;15A:309-15
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21

Nerve block
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6
Transthecal digital block: flexor tendon sheath used for anesthetic infusion (Chiu). 1990;15A:471-3

Nerve compression syndromes
Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging (Skie et al). 1990;15A:934-9
Medial epicondylectomy for the treatment of ulnar nerve compression at the elbow (Heithoff et al). 1990;15A:22-9

Nerve fibers
Vibration exposure and peripheral nerve fiber damage (Lundborg et al). 1990;15A:346-51

Nerve of Henlé; *see* **Ulnar nerve**

Nerves
The dorsal branch of the ulnar nerve: an anatomic study (Botte et al). 1990;15A:603-7
Median innervated hypothenar muscle: anomalous branch of median nerve in the carpal tunnel (Seradge and Seradge). 1990;15A:356-9
The nerve of Henlé (McCabe and Kleinert). 1990;15A:784-8
Palmar cutaneous branch of the median nerve (Hobbs et al). 1990;15A:38-43

Nerves, injuries
Anterior interosseous nerve palsy complicating a forearm fracture in a child (Geissler et al). 1990;15A:44-7
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5

Nerves, pathology
Epineural ganglion of the ulnar nerve at the elbow (Ferlic and Ries). 1990;15A:996-8
Glomus tumor originating within a digital nerve (Kline et al). 1990;15A:98-101
Multifocal neurilemomas in different nerves of the same upper extremity (Tang et al). 1990;15A:788-92
Nonoperative treatment of anterior interosseous nerve paralysis (Miller-Breslow et al). 1990;15A:493-6

Nerves, transplantation
Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury (Dai et al). 1990;15A:36-7

Neurilemoma
Multifocal neurilemomas in different nerves of the same upper extremity (Tang et al). 1990;15A:788-92

Neuritis
Nonoperative treatment of anterior interosseous nerve paralysis (Miller-Breslow et al). 1990;15A:493-6
Nomenclature
The evolution of carpal nomenclature: a short review (Johnson). 1990;15A:834-8
Nylon
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63

O

Occupational accidents; *see* **Accidents, occupational**
Occupational diseases
Barber's interdigital pilonidal sinus of the hand: a foreign body hair granuloma (Patel et al). 1990;15A:652-5
Ramazzini and occupational diseases (Louis). 1990;15A:663-4
Onychodysplasia; *see* **Nails, malformed**
Open fractures; *see* **Fractures, open**
Os centrale carpi; *see* **Carpal bones**
Osteitis deformans
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6
Osteoarthritis
Convex condylar arthroplasty of the basal joint of the thumb: failure under load (Jennings and Livingstone). 1990;15A:573-81
Degenerative arthritis at the triscaphe joint (Rogers and Watson). 1990;15A:232-5
Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization (Clough et al). 1990;15A:706-11
Niebauer trapeziometacarpal arthroplasty (Adams et al). 1990;15A:487-92
Osteoarthritis of the proximal interphalangeal joint of the hand: arthroplasty or fusion? (Pellegrini and Burton). 1990;15A:194-209
Osteochondritis
Effect on force transmission across the carpus in procedures used to treat Kienböck's disease (Horii et al). 1990;15A:393-400
Histologic and magnetic resonance imaging correlations in Kienböck's disease (Trumble and Irving). 1990;15A:879-84
Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7
Osteochondritis dissecans
Osteochondritis dissecans of the lunate (Fowler and Wicks). 1990;15A:571-2
Osteochondromatosis; *see* **Exostoses, multiple hereditary**
Osteonecrosis
Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology (Trumble). 1990;15A:557-64
Microsurgical revascularization of ischemic rat femoral heads (Saldana et al). 1990;15A:309-15
Unilateral osteonecrosis in a patient with bilateral os centrale carpi (Lane et al). 1990;15A:751-4
Osteotomy
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
Experimental corrective scaphoid osteotomy for scaphoid malunion with abnormal wrist mechanics (Birchard and Pichora). 1990;15A:863-8
Use of a step-cut osteotomy for immediate posttraumatic proximal interphalangeal joint fusion (Hagan and Hastings). 1990;15A:374-6
Outcome and process assessment
Evaluation of results in flexor tendon repair: a critical analysis of five methods in ninety-five digits (So et al). 1990;15A:258-64

P

Pain
Thermal self-regulation for pain control in reflex sympathetic dystrophy syndrome (Grunert et al). 1990;15A:615-8
Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20
Pain, postoperative
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Palmar aponeurosis pulley
Anatomy and function of the palmar aponeurosis pulley (Doyle). 1990;15A:78-82
Palmar radiocarpal ligaments
The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54
Palmaris longus muscle
Bilateral palmaris profundus causing bilateral carpal tunnel syndrome (Floyd et al). 1990;15A:364-6
Palmaris longus tendon
Distal rupture of the palmaris longus tendon and fascia as a cause of acute carpal tunnel syndrome (Lourie et al). 1990;15A:367-9
An effective method of reconstructing posttraumatic dorsal dislocated distal radioulnar joints (Leung and Hung). 1990;15A:925-8
Palmaris profundus
Bilateral palmaris profundus causing bilateral carpal tunnel syndrome (Floyd et al). 1990;15A:364-6
Paralysis
Nonoperative treatment of anterior interosseous nerve paralysis (Miller-Breslow et al). 1990;15A:493-6
Paresis, child
Anterior interosseous nerve palsy complicating a forearm fracture in a child (Geissler et al). 1990;15A:44-7
Paresthesia
A self-administered hand diagram for the diagnosis of carpal tunnel syndrome (Katz and Stirrat). 1990;15A:360-3
Pediatrics
Anterior interosseous nerve palsy complicating a forearm fracture in a child (Geissler et al). 1990;15A:44-7
Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6
Congenital bipartite scaphoid (Doman and Marcus). 1990;15A:869-73
Congenital flexion deformities of the proximal interphalangeal joint in children: a subgroup of camptodactyly (Koman et al). 1990;15A:582-6
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54
Pediatric herpetic hand infections (Walker et al). 1990;15A:176-80
Recurrent digital fibromatosis of childhood (Lauri et al). 1990;15A:106-9
Scapholunate dissociation in the skeletally immature carpus (Zimmerman and Weiland). 1990;15A:701-5

Perilunate instability; *see* **Joint instability**
Peripheral nerves
Vibration exposure and peripheral nerve fiber damage (Lundborg et al). 1990;15A:346-51
Phalanx
Proximal phalangeal fracture after tendon pulley reconstruction (Sanger et al). 1990;15A:976-9
Phenols
Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity (Keenan et al). 1990;15A:340-6
Physician-patient relations
Care with care (Green). 1990;15A:191-3
Pilonidal cyst
Barber's interdigital pilonidal sinus of the hand: a foreign body hair granuloma (Patel et al). 1990;15A:652-5
Polydactyly
Congenital hand anomalies in Japan: a family study (Miura et al). 1990;15A:439-44
Three cases of syndactyly, polydactyly, and hypoplastic triphalangeal thumb: (Haas's malformation) (Miura et al). 1990;15A:445-9
Polytetrafluoroethylene
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Postoperative complications
A complication of the buried suture (Kinninmonth). 1990;15A:959-60
Proximal row carpectomy: clinical evaluation (Imbriglia et al). 1990;15A:426-30
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Postoperative period
Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization (Feehan and Beauchene). 1990;15A:63-8
Influences of flexor sheath continuity and early motion on tendon healing in dogs (Gelberman et al). 1990;15A:69-77
A technique to encourage postoperative hand elevation (Cassel). 1990;15A:522
Presidential address
Presidential address. 1990;15A:191-3
Proceedings
American Society for Surgery of the Hand. 1990;15A:806-33
Canadian Society for Surgery of the Hand (MANUS Canada). 1990;15A:803-5
Profundus tendon
Traumatic rupture of the profundus tendon proximal to the lumbrical origin (Walker and Lesavoy). 1990;15A:484-6
Pronator quadratus muscle
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6
Prosthesis, joint; *see* **Joint prosthesis**
Proximal carpal row; *see* **Carpal bones**
Proximal interphalangeal joint
Congenital flexion deformities of the proximal interphalangeal joint in children: a subgroup of camptodactyly (Koman et al). 1990;15A:582-6
Osteoarthritis of the proximal interphalangeal joint of the hand: arthroplasty or fusion? (Pellegrini and Burton). 1990;15A:194-209
Proximal interphalangeal joint, injuries
Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures (Crick et al). 1990;15A:460-3
Irreducible palmar dislocation of the proximal interphalangeal joint of the finger (Inoue and Maeda). 1990;15A:301-4
Use of a step-cut osteotomy for immediate posttraumatic proximal interphalangeal joint fusion (Hagan and Hastings). 1990;15A:374-6
Proximal phalanx; *see* **Phalanx**
Pseudoaneurysm
Traumatic infected pseudoaneurysm of the hand (Sadove). 1990;15A:906-9
Pulley system
Anatomy and function of the palmar aponeurosis pulley (Doyle). 1990;15A:78-82
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Closed traumatic rupture of the ring finger flexor tendon pulley (Tropet et al). 1990;15A:745-7
Distal stenosing tenosynovitis (Rayan). 1990;15A:973-5
Proximal phalangeal fracture after tendon pulley reconstruction (Sanger et al). 1990;15A:976-9
Pulmonary edema
Acute pulmonary edema associated with use of low-molecular weight dextran for prevention of microvascular thromboprophylaxis (Kitziger et al). 1990;15A:902-5
Purpura
Purpura fulminans (Singer and Gorosh). 1990;15A:172-5

Q

Quadriplegia
Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia (Waters et al). 1990;15A:335-9
Questionnaires
Readership survey (Bora). 1990;15A:383 (Editorial)
A role delineation study of hand surgery (Steyers et al). 1990;15A:681-9

R

Radial artery
Radial artery infections and aneurysms after catheterization (Swanson et al). 1990;15A:166-71
Radiocarpal joint
Effects of radioulnar instability on the radiocarpal joint: a biomechanical study (Viegas et al). 1990;15A:728-32
Radiocarpal ligaments, palmar; *see* **Palmar radiocarpal ligaments**
Radiography
Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study (Meade et al). 1990;15A:855-62
Radioscapholunate ligament
Microvascular anatomy of the radioscapholunate ligament of the wrist (Hixson and Stewart). 1990;15A:279-82
Radioulnar joint
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
An effective method of reconstructing posttraumatic dorsal dislocated distal radioulnar joints (Leung and Hung). 1990;15A:925-8

Radioulnar joint—cont'd
Effects of radioulnar instability on the radiocarpal joint: a biomechanical study (Viegas et al). 1990;15A:728-32
Reconstruction of the triangular fibrocartilage complex after surgery for treatment of synovial osteochondromatosis of the distal radioulnar joint (Inada et al). 1990;15A:921-4
Ulnar styloid fixation in the treatment of posttraumatic instability of the radioulnar joint: a biomechanical study with clinical correlation (Shaw et al). 1990;15A:712-20
Radius
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
Radius fractures
An effective treatment of comminuted fractures of the distal radius (Leung et al). 1990;15A:11-7
Effects of distal radius fracture malunion on wrist joint mechanics (Pogue et al). 1990;15A:721-7
Intraarticular fractures of the distal radius: a cadaveric study to determine if ligamentotaxis restores radiopalmar tilt (Bartosh and Saldana). 1990;15A:18-21
Limited open surgical approach for external fixation of distal radius fractures (Seitz et al). 1990;15A:288-93
Open reduction and internal fixation of comminuted, intraarticular fractures of the distal radius (Axelrod and McMurtry). 1990;15A:1-11
Ramazzini, Bernardino
Ramazzini and occupational diseases (Louis). 1990;15A:663-4
Recurrence
Recurrent digital fibromatosis of childhood (Lauri et al). 1990;15A:106-9
Reflex dystrophy syndrome
Thermal self-regulation for pain control in reflex sympathetic dystrophy syndrome (Grunert et al). 1990;15A:615-8
Rehabilitation
Normative study of grip and wrist flexion strength employing a BTE Work Simulator (Anderson et al). 1990;15A:420-5
Remission, spontaneous
Nonoperative treatment of anterior interosseous nerve paralysis (Miller-Breslow et al). 1990;15A:493-6
Repetition strain injury
Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20
Replantation
Arteriovenous shunt in digit replantation (Fukui et al). 1990;15A:160-5
Clinical results of bony fixation methods in digital replantation (Whitney et al). 1990;15A:328-34
Quantifying the effect of ischemia on epiphyseal growth in an extremity replant model (Carey et al). 1990;15A:625-30
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Temporary ectopic implantation (Chernofsky and Sauer). 1990;15A:910-4
Result assessment; *see* **Outcome and process assessment**
Revascularization
Microsurgical revascularization of ischemic rat femoral heads (Saldana et al). 1990;15A:309-15
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Rheumatoid arthritis; *see* **Arthritis, rheumatoid**
Role Delineation Study of Hand Surgery
A role delineation study of hand surgery (Steyers et al). 1990;15A:681-9
Rupture
Closed traumatic rupture of the ring finger flexor tendon pulley (Tropet et al). 1990;15A:745-7
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management (Pin et al). 1990;15A:110-9
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Distal rupture of the palmaris longus tendon and fascia as a cause of acute carpal tunnel syndrome (Lourie et al). 1990;15A:367-9
Dorsal dislocation of the lunate with multiple extensor tendon ruptures (Schwartz et al). 1990;15A:132-3
Flexor tendon ruptures secondary to hamate hook fractures (Milek and Boulas). 1990;15A:740-4
Traumatic rupture of the profundus tendon proximal to the lumbrical origin (Walker and Lesavoy). 1990;15A:484-6
Rupture, spontaneous
Spontaneous rupture of the biceps muscle due to a concealed malignant fibrous histiocytoma (Karev and Stahl). 1990;15A:94-7

S

Sarcoma, Ewing's
Ewing's sarcoma of the hand: localization and treatment (Euler et al). 1990;15A:659-62
Scaphoid bone
Congenital bipartite scaphoid (Doman and Marcus). 1990;15A:869-73
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Scaphoid bone, injuries
Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions (Fernandez). 1990;15A:140-7
Avascular necrosis after scaphoid fracture: a correlation of magnetic resonance imaging and histology (Trumble). 1990;15A:557-64
Experimental corrective scaphoid osteotomy for scaphoid malunion with abnormal wrist mechanics (Birchard and Pichora). 1990;15A:863-8
Nonunion of a fractured scaphoid tubercle (Jonsson). 1990;15A:283-5
Palmar dislocation of scaphoid and lunate as a unit (Sarrafian and Breihan). 1990;15A:134-9
Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study (Meade et al). 1990;15A:855-62
Two modifications for insertion of the Herbert screw in the fractured scaphoid (Chun et al). 1990;15A:669-71
Scaphoid subluxation; *see* **Subluxation**
Scapholunate ligaments
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management (Pin et al). 1990;15A:110-9
Scapholunate dissociation in the skeletally immature carpus (Zimmerman and Weiland). 1990;15A:701-5
Scapholunate interosseous reconstruction and imbrication of palmar ligaments (Conyers). 1990;15A:690-700
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspec-

tive on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14

Screws; *see* **Bone screws**

Serratus anterior muscle

Serratus anterior muscle transplantation for treatment of soft tissue defects in the hand (Brody et al). 1990;15A:322-7

Sesamoid bones

Fractures of the sesamoid bones of the thumb (Patel et al). 1990;15A:776-81

Silicones

Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7

Niebauer trapeziometacarpal arthroplasty (Adams et al). 1990;15A:487-92

Skin flaps; *see* **Flaps**

Spasticity; *see* **Muscle spasticity**

Specialties, medical

A role delineation study of hand surgery (Steyers et al). 1990;15A:681-9

Splints

Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries (Hung et al). 1990;15A:251-7

Evaluation of results in flexor tendon repair: a critical analysis of five methods in ninety-five digits (So et al). 1990;15A:258-64

A splint for controlled active motion after flexor tendon repair: design, mechanical testing, and preliminary clinical results (Chow et al). 1990;15A:645-51

Stenosing tenosynovitis; *see* **Tenosynovitis**

Steroids

De Quervain's disease: surgical or nonsurgical treatment (Harvey et al). 1990;15A:83-7

Stress disorders, post-traumatic

Treatment of posttraumatic stress disorder after work-related hand trauma (Grunert et al). 1990;15A:511-5

Subluxation

Degenerative arthritis at the triscaphe joint (Rogers and Watson). 1990;15A:232-5

Surgery, operative

Distraction for wrist arthroscopy (Kaempffe and Peimer). 1990;15A:520-1

The wrist tourniquet: an alternative technique in hand surgery (Guirguis and Bell). 1990;15A:516-9

Surgery, plastic

Classification and treatment of postburn metacarpophalangeal joint extension contractures in children (Graham et al). 1990;15A:450-6

Surgical flaps; *see* **Flaps**

Suture techniques

Double loop locking suture: a technique of tendon repair for early active mobilization. Part I: evolution of technique and experimental study (Lee). 1990;15A:945-52

Double loop locking suture: a technique of tendon repair for early active mobilization. Part II: clinical experience (Lee). 1990;15A:953-8

Sutures

A complication of the buried suture (Kinninmonth). 1990;15A:959-60

Swanson implant; *see* **Joint prosthesis**

Syndactylia

Congenital hand anomalies in Japan: a family study (Miura et al). 1990;15A:439-44

Three cases of syndactyly, polydactyly, and hypoplastic triphalangeal thumb: (Haas's malformation) (Miura et al). 1990;15A:445-9

Synovectomy

Results of dorsal wrist synovectomies in the rheumatoid hand (Brumfield et al). 1990;15A:733-5

Synovial membrane

Idiopathic carpal tunnel syndrome: histologic study of flexor tendon synovium (Schuind et al). 1990;15A:497-503

Synovitis

Lunate silicone replacement arthroplasty in Kienböck's disease: a long-term follow-up (Alexander et al). 1990;15A:401-7

Niebauer trapeziometacarpal arthroplasty (Adams et al). 1990;15A:487-92

Results of dorsal wrist synovectomies in the rheumatoid hand (Brumfield et al). 1990;15A:733-5

T

Tendon injuries

Dorsal dislocation of the lunate with multiple extensor tendon ruptures (Schwartz et al). 1990;15A:132-3

Early controlled active mobilization with dynamic splintage for treatment of extensor tendon injuries (Hung et al). 1990;15A:251-7

Long-term results of extensor tendon repair (Newport et al). 1990;15A:961-6

Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5

Traumatic rupture of the profundus tendon proximal to the lumbrical origin (Walker and Lesavoy). 1990;15A:484-6

Traumatic and spontaneous dislocation of extensor tendon of the long finger (Ishizuki). 1990;15A:967-72

Tendon injuries, animal

Early tensile properties of healing chicken flexor tendons: early controlled passive motion versus postoperative immobilization (Feehan and Beauchene). 1990;15A:63-8

Effect of various methods of restoring flexor sheath integrity on the formation of adhesions after tendon injury (Peterson et al). 1990;15A:48-56

Effects of indomethacin on adhesion formation after repair of zone II tendon lacerations in the rabbit (Szabo and Younger). 1990;15A:480-3

Influences of flexor sheath continuity and early motion on tendon healing in dogs (Gelberman et al). 1990;15A:69-77

Tendon rupture; *see* **Rupture**

Tendons

Anatomy and function of the palmar aponeurosis pulley (Doyle). 1990;15A:78-82

Anatomy of the juncturae tendinum of the hand (von Schroeder et al). 1990;15A:595-602

Idiopathic carpal tunnel syndrome: histologic study of flexor tendon synovium (Schuind et al). 1990;15A:497-503

Tendons, microbiology

Acute flexor tendon sheath infections (Maloon et al). 1990;15A:474-7

Tendons, pathology

An intratendinous epidermoid cyst after trauma (O'Hara and Stone). 1990;15A:477-9

Intratendinous fibroma of flexor tendon (Grenga). 1990;15A:92-3

Tendons, surgery

Double loop locking suture: a technique of tendon repair for early active mobilization. Part I: evolution of technique and experimental study (Lee). 1990;15A:945-52

Double loop locking suture: a technique of tendon repair for early

Tendons, surgery—cont'd
active mobilization. Part II: clinical experience (Lee). 1990;15A:953-8
Evaluation of results in flexor tendon repair: a critical analysis of five methods in ninety-five digits (So et al). 1990;15A:258-64
Proximal phalangeal fracture after tendon pulley reconstruction (Sanger et al). 1990;15A:976-9
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision (Leslie et al). 1990;15A:547-51
A splint for controlled active motion after flexor tendon repair: design, mechanical testing, and preliminary clinical results (Chow et al). 1990;15A:645-51

Tenodesis; *see* **Tendons, surgery**

Tenosynovitis
De Quervain's disease: surgical or nonsurgical treatment (Harvey et al). 1990;15A:83-7
Distal stenosing tenosynovitis (Rayan). 1990;15A:973-5
Incidence of a septum within the first dorsal compartment of the wrist (Leslie et al). 1990;15A:88-91
Treatment of trigger finger by steroid injection (Newport et al). 1990;15A:748-50
Triggering of the thumb with de Quervain's stenosing tendovaginitis (Witczak et al). 1990;15A:265-8

Thermal biofeedback; *see* **Biofeedback**

Thoracodorsal nerve
Transference of thoracodorsal nerve to musculocutaneous or axillary nerve in old traumatic injury (Dai et al). 1990;15A:36-7

Thrombosis
Acute pulmonary edema associated with use of low-molecular weight dextran for prevention of microvascular thromboprophylaxis (Kitziger et al). 1990;15A:902-5
Thrombosis of the vena comitantes of the ulnar artery (Gonzalez and Hall). 1990;15A:773-6

Thumb, abnormalities
Congenital hand anomalies in Japan: a family study (Miura et al). 1990;15A:439-44
Three cases of syndactyly, polydactyly, and hypoplastic triphalangeal thumb: (Haas's malformation) (Miura et al). 1990;15A:445-9
Treatment of the windblown hand (Wood and Biondi). 1990;15A:431-8

Thumb, injuries
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Fractures of the sesamoid bones of the thumb (Patel et al). 1990;15A:776-81

Thumb, pathology
Boutonniere rheumatoid thumb deformity (Terrono et al). 1990;15A:999-1003
Convex condylar arthroplasty of the basal joint of the thumb: failure under load (Jennings and Livingstone). 1990;15A:573-81
Metacarpal-phalangeal joint arthroplasty of the rheumatoid thumb (Figgie et al). 1990;15A:210-6
Paget's disease in the hand: correlation of magnetic resonance imaging with histology (Trumble et al). 1990;15A:504-6
Triggering of the thumb with de Quervain's stenosing tendovaginitis (Witczak et al). 1990;15A:265-8

Toes, transplantation
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21

Tourniquets
The wrist tourniquet: an alternative technique in hand surgery (Guirguis and Bell). 1990;15A:516-9

Traction
Distraction for wrist arthroscopy (Kaempffe and Peimer). 1990;15A:520-1
Intraarticular fractures of the distal radius: a cadaveric study to determine if ligamentotaxis restores radiopalmar tilt (Bartosh and Saldana). 1990;15A:18-21

Transplantation, autologous
Anterior bone grafting and conventional lag screw fixation to treat scaphoid nonunions (Fernandez). 1990;15A:140-7
Arteriovenous shunt in digit replantation (Fukui et al). 1990;15A:160-5
Biomechanical and histologic evaluations of pulley reconstructions in nonhuman primates (Dunlap et al). 1990;15A:57-63
Cloward technique for obtaining iliac crest bone graft in hand surgery (Brody and Hentz). 1990;15A:181-3
An effective treatment of comminuted fractures of the distal radius (Leung et al). 1990;15A:11-7
Electromyographic analysis of brachioradialis to flexor pollicis longus tendon transfer in quadriplegia (Waters et al). 1990;15A:335-9
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Pathologic fracture of the proximal ulna through a bone graft donor site (Walker and Meals). 1990;15A:781-4
Reconstructive microsurgery of the upper extremity (O'Brien). 1990;15A:316-21
The repair of nail deformities with the nonvascularized nail bed graft: indications and results (Pessa et al). 1990;15A:466-70
Serratus anterior muscle transplantation for treatment of soft tissue defects in the hand (Brody et al). 1990;15A:322-7
A standardized measurement of ulnar carpal translocation (DiBenedetto et al). 1990;15A:1009-10
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Use of a reverse cross-finger flap as a vascularized vein graft carrier in ring avulsion injuries (Martin et al). 1990;15A:155-9
Vascular anatomy of the pronator quadratus muscle-bone flap: a justification for its use with a distally based blood supply (Rath et al). 1990;15A:630-6

Transplantation, homologous
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33

Trapeziometacarpal joint
Failure of trapeziometacarpal arthrodesis with use of the Herbert screw and limited immobilization (Clough et al). 1990;15A:706-11
Niebauer trapeziometacarpal arthroplasty (Adams et al). 1990;15A:487-92

Trapezium
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
An unusual combination of simultaneous fracture of the tuberosity of the trapezium and the hook of the hamate (Jensen and Christensen). 1990;15A:285-7

Trapezoid
Dorsal dislocation of the trapezoid (Ostrowski et al). 1990;15A:874-8
Palmar approach for treatment of scapho-trapezio-trapezoid arthrodesis (Essman et al). 1990;15A:672-4
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Trauma; *see* **Injuries**
Triangular fibrocartilage complex
Magnetic resonance imaging of the triangular fibrocartilage complex (Skahen et al). 1990;15A:552-7
Reconstruction of the triangular fibrocartilage complex after surgery for treatment of synovial osteochondromatosis of the distal radioulnar joint (Inada et al). 1990;15A:921-4
Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20
Trigger finger; *see* **Tenosynovitis**
Triscaphe joint
Degenerative arthritis at the triscaphe joint (Rogers and Watson). 1990;15A:232-5

U

Ulna
Allograft replacement with distal radioulnar joint fusion and ulnar osteotomy for treatment of giant cell tumors of the distal radius (Szabo et al). 1990;15A:929-33
A critical analysis of Swanson ulnar head replacement arthroplasty: rheumatoid versus nonrheumatoid (McMurtry et al). 1990;15A:224-31
Pathologic fracture of the proximal ulna through a bone graft donor site (Walker and Meals). 1990;15A:781-4
Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision (Leslie et al). 1990;15A:547-51
Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20
Ulnar artery
Surgical management of ulnar artery aneurysms (Rothkopf et al). 1990;15A:891-7
Thrombosis of the vena comitantes of the ulnar artery (Gonzalez and Hall). 1990;15A:773-6
Ulnar collateral ligament
Diagnosis of displaced ulnar collateral ligament of the metacarpophalangeal joint of the thumb (Abrahamsson et al). 1990;15A:457-60
Ulnar nerve
The dorsal branch of the ulnar nerve: an anatomic study (Botte et al). 1990;15A:603-7
Epineural ganglion of the ulnar nerve at the elbow (Ferlic and Ries). 1990;15A:996-8
Medial epicondylectomy for the treatment of ulnar nerve compression at the elbow (Heithoff et al). 1990;15A:22-9
The nerve of Henlé (McCabe and Kleinert). 1990;15A:784-8
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5

V

Veins
Arteriovenous shunt in digit replantation (Fukui et al). 1990;15A:160-5
Use of a reverse cross-finger flap as a vascularized vein graft carrier in ring avulsion injuries (Martin et al). 1990;15A:155-9
Vibration
Vibration exposure and peripheral nerve fiber damage (Lundborg et al). 1990;15A:346-51
Virus diseases
Pediatric herpetic hand infections (Walker et ai). 1990;15A:176-80

W

Wires; *see* **Bone wires**
Wounds and injuries; *see* **Injuries**
Wrist
Carpal tunnel changes and median nerve compression during wrist flexion and extension as seen by magnetic resonance imaging (Skie et al). 1990;15A:934-9
Normative study of grip and wrist flexion strength employing a BTE Work Simulator (Anderson et al). 1990;15A:420-5
Segmental motion of the proximal carpal row: their global effect on the wrist motion (Seradge et al). 1990;15A:236-9
Wrist, anatomy
Architecture of selected wrist flexor and extensor muscles (Lieber et al). 1990;15A:244-50
Microvascular anatomy of the radioscapholunate ligament of the wrist (Hixson and Stewart). 1990;15A:279-82
Wrist, pathology
Carpal tunnel syndrome secondary to wrist and finger flexor spasticity (Orcutt et al). 1990;15A:940-4
De Quervain's disease: surgical or nonsurgical treatment (Harvey et al). 1990;15A:83-7
Evaluation of the biomechanical efficacy of limited intercarpal fusions for the treatment of scapho-lunate dissociation (Viegas et al). 1990;15A:120-8
Kinematics of the ulnar carpus related to the volar intercalated segment instability pattern (Trumble et al). 1990;15A:384-92
Results of dorsal wrist synovectomies in the rheumatoid hand (Brumfield et al). 1990;15A:733-5
Results of extensor carpi ulnaris tenodesis in the rheumatoid wrist undergoing a distal ulnar excision (Leslie et al). 1990;15A:547-51
Scapho-trapezio-trapezoid arthrodesis for treatment of chronic static and dynamic scapho-lunate instability: a 10-year perspective on pitfalls and complications (Kleinman and Carroll). 1990;15A:408-14
Trispherical total wrist arthroplasty in rheumatoid arthritis (Figgie et al). 1990;15A:217-23
Wrist arthrodesis for treatment of rheumatoid arthritis (Kobus and Turner). 1990;15A:541-6
Wrist, surgery
Distraction for wrist arthroscopy (Kaempffe and Peimer). 1990;15A:520-1
Use of pronator quadratus bone flap in bony reconstruction around the wrist (Leung and Hung). 1990;15A:637-40
Wrist injuries
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management (Pin et al). 1990;15A:110-9
Experimental corrective scaphoid osteotomy for scaphoid malunion with abnormal wrist mechanics (Birchard and Pichora). 1990;15A:863-8
Incidence of a septum within the first dorsal compartment of the wrist (Leslie et al). 1990;15A:88-91
Radiographic analysis of selective ligament sectioning at the carpal scaphoid: a cadaver study (Meade et al). 1990;15A:855-62
Simultaneous laceration of the median and ulnar nerves with flexor tendons at the wrist (Rogers et al). 1990;15A:990-5

Wrist injuries—cont'd

Ulnar shortening for tears of the triangular fibrocartilaginous complex (Boulas and Milek). 1990;15A:415-20

Wrist injuries: correlation of clinical and arthroscopic findings (North and Meyer). 1990;15A:915-20

Wrist joint

Anatomic variations of the midcarpal joint (Burgess). 1990;15A:129-31

Degenerative arthritis at the triscaphe joint (Rogers and Watson). 1990;15A:232-5

Effect on force transmission across the carpus in procedures used to treat Kienböck's disease (Horii et al). 1990;15A:393-400

Effects of distal radius fracture malunion on wrist joint mechanics (Pogue et al). 1990;15A:721-7

The palmar radiocarpal ligaments: a study of adult and fetal human wrist joints (Berger and Landsmeer). 1990;15A:847-54

Proximal row carpectomy: clinical evaluation (Imbriglia et al). 1990;15A:426-30

Scapholunate dissociation in the skeletally immature carpus (Zimmerman and Weiland). 1990;15A:701-5